

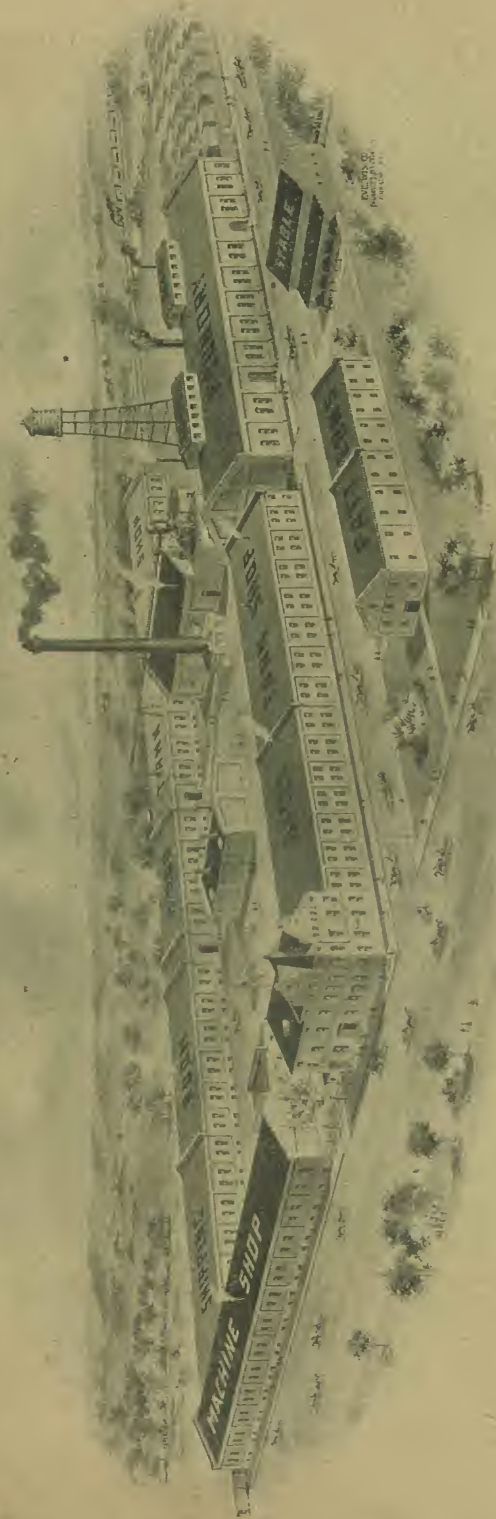


# CALDWELL TANKS

• 1909 •

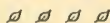
W.E. CALDWELL Co

LOUISVILLE, KY.





Twenty-First Annual Edition--One Million Copies.



W. E. CALDWELL, President.

H. B. WINTERSMITH, Vice-President.

R. E. MILLER, Secretary.

Established 1887.

Incorporated 1892.

1909.



HE beginning of the present year has witnessed the consummation of a plan we have long cherished, the operation of our own saw-mills in cutting from our own timber the cypress lumber we use in our wooden tanks.

At Red Fish, Louisiana, where the plant is situated, we have secured one of the finest tracts of cypress timber in the State of sufficient size to supply our requirements for years to come, and a modern band mill of large capacity.

As a consequence, we shall not only be able to get our lumber at first cost, but it will no longer be necessary to pay for the best quality of lumber and accept the inferior grades that the mills expect to be taken when they get busy.

Now we can always be certain of having the finest quality of lumber, as it will be cut and manufactured to suit our own requirements and the inferior grades will be marketed for other purposes.

While this but emphasizes our long recognized supremacy in the wooden tank business, it must not dwarf the fact that we also specialize in steel tank and tank structure work and are equipped to build everything used in this line.

It is not possible in a catalogue of the size of this to show more than a few of the designs of tanks and structures that we build, but our new one hundred page catalogue of tanks and towers will be found the most complete of any published, containing, as it does, a complete description with cuts made from mechanical drawings to show the actual details of construction of all the different styles of such outfits used, including both standard and special designs, with illustrations of a great many jobs in use, and a copy of this will be sent to anyone interested in work of this character.

We also issue a general catalogue of Water Supply goods, a Special Galvanized Tank Catalogue and a small catalogue of Water Works Systems for Country Homes, a sixty-four page Embossed View Book containing illustrations of many different types of outfits, and a Booklet of Testimonial Letters—of which we shall be glad to send a copy of any or all to any address.

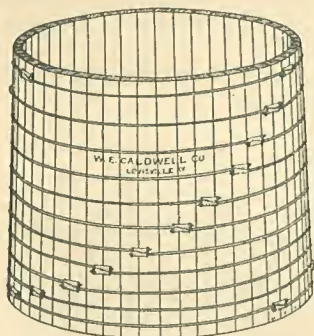
The name "Caldwell" in connection with a tank and tower outfit still symbolizes, as it has for twenty-five years, all that is best in design, materials and construction, and assures any purchaser of such an outfit securing full and substantial value for every dollar invested, and also the certain and sure satisfaction that comes—and can only come—from the use of first-class work.



## WOODEN TANKS.

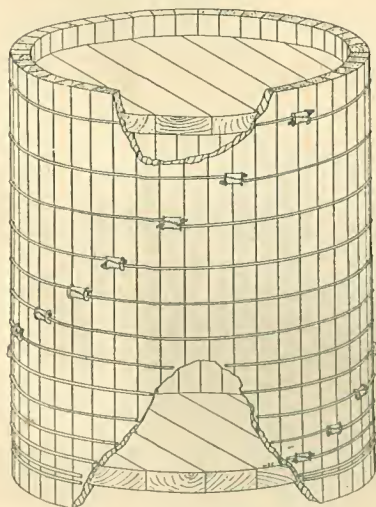
### WATER TANK.

Cypress, White Pine or Yellow Pine.



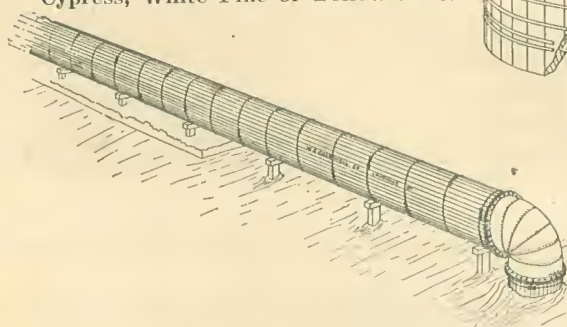
### HEAVY YELLOW PINE ACID TANK.

For Paper Mills.

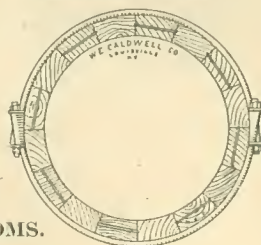


### PENSTOCK OR FLUME.

Cypress, White Pine or Yellow Pine.



Sectional View.



### SECTION OF TANK STAVES AND BOTTOMS.

Showing Finished Measurements in Inches.

A—Thickness in rough.	1½"	2"	2½"	3"	4"	6"	8"
B—Thickness of staves	1¾"	1¾"	2¼"	2¾"	3½"	5½"	7½"
C—Depth of croze.....	¾"	½"	⅝"	⅝"	¾"	⅞"	1"
D—Width of croze.....	1½"	1½"	2"	2½"	3¾"	5¾"	7¾"
E—Length of chime.....	3¾"	3¾"	3½"	3½"	3¾"	4¾"	5½"
G—Thickness of bottom.....	1¾"	1¾"	2¾"	2¾"	3¾"	5½"	7½"
H—Thickness of beveled edge.....	1½"	1½"	2½"	2½"	3½"	5½"	7½"
J—Thickness of bevel..	⅞"	⅞"	1½"	1½"	⅞"	¾"	¾"
K—Length of bevel.....	1¾"	1¾"	1¾"	1¾"	1¾"	1¾"	1¾"



Prices of plain Round Tanks are listed on pages 5, 6, 7 and 8.

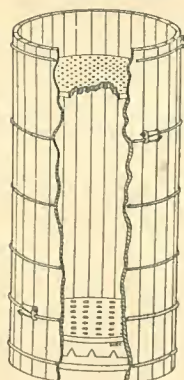
Prices for other styles illustrated or any other kind wanted will be quoted on application.



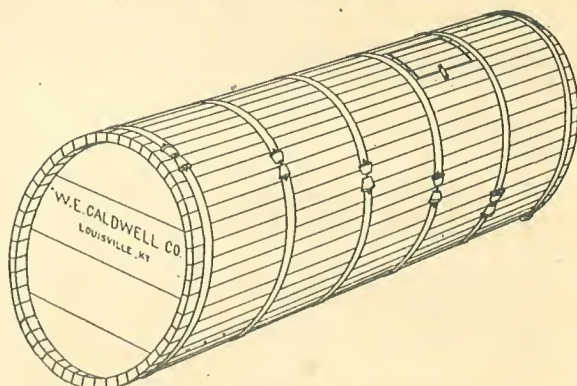


## WOODEN TANKS.

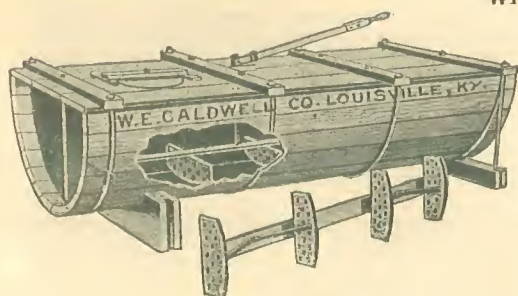
**VINEGAR GENERATORS.**  
Of Cypress.



**WAGON TANKS.**  
Cypress, White Pine or Yellow Pine.

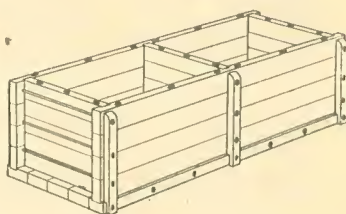


**HALF ROUND STOCK AND SPRAYING TANKS.**  
Cypress, White Pine or Yellow Pine.

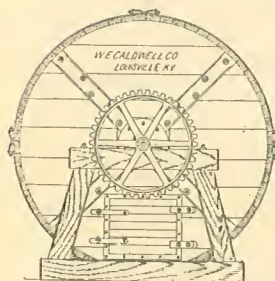


**RECTANGULAR TANK.**  
Cypress, White Pine or Yellow Pine.

With or Without Partitions.  
With Either Iron or Brass Rods.

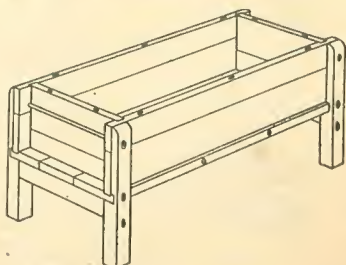
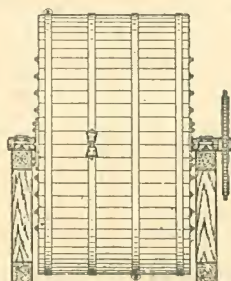


**STUFFING WHEEL.**  
Cypress or Yellow Pine.



**SINKS.**  
Cypress, White Pine or Yellow Pine.

With or Without Partitions.



State Size and Details of Tank Wanted and we will Quote Delivered Price.



# Key to Price List of Wooden Tanks.

## CAPACITIES

are based on straight staves.

## TAPER.

All tanks are regularly built with a taper of one inch to the foot.

## DIMENSIONS

are given for inside measurements for both diameter and depth; for outside length of stave, add for 1½-inch lumber 4½ inches; 2-inch, 5 inches; 2½-inch and 3-inch, 6 inches.

## STANDARD SIZES.

Tanks listed are the standard sizes that cut to best advantage from standard lengths of lumber, which comes in lengths of even feet. We can supply tanks of any other sizes that may be required.

## LIST PRICES

are for Round Tanks without a top head or cover. They are based on 2-inch material for tanks up to and including 20' 0" in diameter, and for 3-inch above that.

A separate circular will be furnished, where desired, giving list prices of 2½ and 3-inch tanks from 10 to 20 feet diameter.

List Prices are the same for Cypress, White Pine, Yellow Pine and Poplar, but a different discount applies.

The same list is also used for 1½-inch Cypress Tanks, but a different discount is quoted.

## DISCOUNTS.

Discounts and freight rates will be quoted on application; or we will name net delivered prices if size of tank is given.

## THICKNESS

of Cypress Tanks furnished is 1½, 2, 2½ and 3-inch. Of White Pine and Poplar is 2-inch, and tanks of these woods are not supplied over 16 feet in diameter.

Of Yellow Pine is 2, 3, 4, 5, 6 and 8-inch. We recommend 1½-inch Cypress for tanks as large as 8 ft. 0 in. diameter and 8 ft. 0 in. high, and it is often used in much larger tanks. Two-inch material is used right along in tanks 16 and 18 feet in diameter, and sometimes 20 feet. We advise 2½-inch, however, for 17 to 20 feet diameter, and 3-inch for larger sizes.

## FLAT RIVETED HOOPS.

List Prices for tanks with riveted hoops include bottom and staves and the necessary steel hoops punched at one end for rivets with rivets to put them together.

## HOOP LUGS.

In the next column are given list prices of draw lugs, which include one pair for each hoop of a tank for tanks under 18 feet in diameter, two pairs of lugs for each hoop for tanks 18 to 24 feet in diameter inclusive, and three pairs for each hoop for tanks over 24 feet in diameter.

## GALVANIZED HOOPS AND LUGS

These hoops and lugs can be furnished galvanized at a slight additional cost.

## ROUND HOOPS

are always furnished with lugs. Round hoops cost more than flat, because enough more metal must be supplied to allow for the threads as the strength is figured on the net thickness under the threads. Tank Tables specify the number of flat hoops to each tank. More round hoops are furnished, except for the smaller sizes.

## FOR EXTRA COST

of round hoops and lugs, add \$1.00 for each 1,000 gallons to the cost of tank with flat hoops and lugs.

## GALVANIZED.

These hoops and lugs can also be furnished galvanized where desired.

## SHIPPING WEIGHTS

for tanks 20 feet in diameter and less are based on 2-inch material for either Cypress, Poplar or White Pine. 1½-inch Cypress tanks weigh about 20% less; 2½ and 3-inch about 40% and 60% more respectively.

Yellow Pine tanks weigh about 50% more than Cypress.

## METHOD OF SHIPMENT.

Tanks are never put together at the factory, but are got out from standard templets and shipped knocked down, and well crated. Enough staves are sent to allow for dressing off and fitting in the last one. Hoops are cut to lengths and a plan supplied showing how to space them.

## ERECTION.

Prices for erection will be supplied where desired.

## FOUNDATION PLANS.

We can furnish customer plans for building foundations for tank to suit any conditions.

Prices for Plain Round Tanks are listed on Pages 5, 6, 7 and 8. Prices for other styles illustrated or any other kind wanted, will be quoted on application.





# LIST PRICES OF ROUND TANKS.

These Prices and Weights are for two-inch Tanks.

See Key to Price List on Page 4.

Gallons.	Inside Bottom Diameter.	Inside Depth.	No. of Flat Hoops.	Shipping Weight.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.	Gallons.	Inside Bottom Diameter.	Inside Depth.	No. of Flat Hoops.	Shipping Weight.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.
	ft. in.	ft. in.		lbs.				ft. in.	ft. in.		lbs.		
74	3.0	1.5	2	146	\$ 6 57	\$0 80	431	7.0	1.5	2	446	\$17 07	\$1 20
105	"	2.0	2	168	7 56	80	575	"	2.0	2	490	18 95	1 20
127	"	2.5	3	200	9 00	1 20	719	"	2.5	3	564	21 63	1 60
153	"	3.0	3	225	10 13	1 40	863	"	3.0	3	614	23 51	1 60
180	"	3.5	4	257	11 57	1 80	983	"	3.5	4	681	26 15	2 00
211	"	4.0	4	281	12 65	2 00	1151	"	4.0	4	741	28 47	2 40
							1271	"	4.5	4	796	30 57	2 60
133	4.0	1.5	2	209	8 95	80	1559	"	5.5	5	919	35 36	3 20
187	"	2.0	2	239	10 21	80	1847	"	6.5	6	1046	40 32	4 00
226	"	2.5	3	282	12 07	1 20	2135	"	7.5	6	1150	44 25	4 25
281	"	3.0	3	315	13 48	1 40	2423	"	8.5	7	1277	49 22	5 00
321	"	3.5	4	358	15 33	1 80	2711	"	9.5	8	1407	54 32	6 00
374	"	4.0	4	391	16 74	2 00							
413	"	4.5	4	423	18 10	2 00	495	7.6	1.5	2	492	18 83	1 20
							660	"	2.0	2	546	20 85	1 20
209	5.0	1.5	2	276	11 17	80	825	"	2.5	3	618	23 69	1 60
294	"	2.0	2	314	12 69	80	990	"	3.0	3	672	25 71	1 60
355	"	2.5	3	365	14 80	1 20	1128	"	3.5	4	745	28 59	2 00
440	"	3.0	3	407	16 50	1 40	1322	"	4.0	4	810	31 11	2 40
501	"	3.5	3	445	18 02	1 40	1460	"	4.5	4	869	33 36	2 60
587	"	4.0	4	500	20 20	2 00	1790	"	5.5	5	1002	38 54	3 20
648	"	4.5	4	538	21 82	2 00	2120	"	6.5	6	1139	43 89	4 00
794	"	5.5	5	596	24 24	2 80	2450	"	7.5	6	1251	48 12	4 20
							2780	"	8.5	7	1388	53 48	5 00
317	6.0	1.5	2	355	13 58	1 00	3110	"	9.5	8	1528	58 97	6 00
422	"	2.0	2	399	15 23	1 00							
527	"	2.5	3	453	17 55	1 40	563	8.0	1.5	2	552	21 18	1 85
632	"	3.0	3	507	19 43	1 60	751	"	2.0	2	610	23 34	1 85
720	"	3.5	4	566	21 75	2 00	939	"	2.5	3	689	26 46	2 40
845	"	4.0	4	614	23 58	2 20	1127	"	3.0	3	754	29 04	2 65
934	"	4.5	4	664	25 50	2 40	1294	"	3.5	4	840	32 40	3 45
1145	"	5.5	5	766	29 43	2 80	1500	"	4.0	5	931	36 06	4 50
1356	"	6.5	6	877	33 77	3 60	1656	"	4.5	5	989	38 22	4 50
1567	"	7.5	6	965	37 07	3 60	2031	"	5.5	5	1096	42 60	4 50
1778	"	8.5	7	1076	41 40	4 40	2406	"	6.5	6	1248	48 18	5 30
1989	"	9.5	8	1191	45 92	5 40	2781	"	7.5	6	1372	52 86	5 55
							3156	"	8.5	7	1502	57 84	5 00
372	6.6	1.5	2	396	15 14	1 00	3531	"	9.5	8	1657	63 95	6 20
495	"	2.0	2	444	16 94	1 00	4281	"	11.5	9	1924	74 22	7 20
618	"	2.5	3	508	19 46	1 40							
741	"	3.0	3	562	21 53	1 60	637	8.6	1.5	2	615	23 58	1 85
848	"	3.5	4	626	24 05	2 00	849	"	2.0	2	675	25 80	1 85
993	"	4.0	4	677	25 98	2 20	1061	"	2.5	3	765	29 40	2 65
1096	"	4.5	4	732	28 10	2 40	1273	"	3.0	3	825	31 68	2 65
1344	"	5.5	5	843	32 37	2 80	1450	"	3.5	4	915	33 90	3 45
1592	"	6.5	6	964	37 10	3 60	1697	"	4.0	4	982	37 80	3 70
1840	"	7.5	6	1060	40 70	3 60	1875	"	4.5	4	1038	38 46	3 70
2088	"	8.5	7	1181	45 42	4 40	2299	"	5.5	5	1190	45 84	4 50
2336	"	9.5	8	1306	50 33	5 40	2723	"	6.5	5	1314	50 52	4 75

Write for discounts and freight rates or state size of tank wanted, and we will quote net delivered prices.



# LIST PRICES OF ROUND TANKS.

These Prices and Weights are for two-inch Tanks.

See Key to Price List on Page 4.

Gallons.	Inside Bottom Diameter.	Inside Depth.	No. of Flat Hoops.	Shipping Weight.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.	Gallons.	Inside Bottom Diameter.	Inside Depth.	No. of Flat Hoops.	Shipping Weight.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.
	ft. in.	ft. in.		lbs.				ft. in.	ft. in.		lbs.		
3148	8.6	7.5	6	1462	\$56 28	\$5 55	2213	10.6	3.5	4	1251	\$48 06	\$3 45
3572	"	8.5	7	1616	62 28	6 35	2590	"	4.0	4	1325	50 88	3 45
3996	"	9.5	8	1768	68 22	6 20	2860	"	4.5	5	1443	55 62	4 50
4844	"	11.5	9	2653	79 19	7 20	3508	"	5.5	5	1591	61 14	4 50
							4155	"	6.5	6	1783	68 70	5 55
714	9.0	1.5	2	656	25 14	1 85	4803	"	7.5	7	1968	75 90	6 35
951	"	2.0	3	740	28 44	2 40	5452	"	8.5	7	2123	81 78	6 60
1188	"	2.5	3	804	30 84	2 40	6100	"	9.5	8	2314	89 22	7 65
1425	"	3.0	4	907	35 10	3 45							
1623	"	3.5	4	971	37 44	3 45	2428	11.0	3.5	4	1307	50 16	3 20
1900	"	4.0	4	1035	39 84	3 45	2843	"	4.0	4	1392	53 40	3 45
2098	"	4.5	4	1104	42 42	3 70	3139	"	4.5	4	1470	56 34	3 45
2577	"	5.5	5	1260	48 48	4 50	3850	"	5.5	5	1679	64 56	4 75
3053	"	6.5	6	1394	53 58	4 75	4561	"	6.5	6	1877	72 30	5 55
3529	"	7.5	6	1553	59 76	5 55	5272	"	7.5	7	2079	80 22	6 60
4004	"	8.5	7	1711	65 94	6 35	5982	"	8.5	8	2274	87 84	7 40
4479	"	9.5	7	1833	72 71	6 60	6694	"	9.5	8	2438	94 04	7 65
5429	"	11.5	9	2179	84 11	7 60							
							2654	11.6	3.5	3	1335	51 00	2 65
795	9.6	1.5	2	726	27 78	1 85	3107	"	4.0	4	1457	55 86	3 45
1060	"	2.0	3	821	31 56	2 40	3430	"	4.5	4	1548	59 40	3 70
1320	"	2.5	3	889	34 08	2 40	4207	"	5.5	5	1760	67 68	4 75
1590	"	3.0	3	964	36 96	2 65	4985	"	6.5	6	1976	76 08	5 55
1811	"	3.5	4	1066	41 04	3 45	5762	"	7.5	7	2176	83 94	6 60
2120	"	4.0	4	1134	43 56	3 45	6539	"	8.5	8	2380	91 88	7 40
2348	"	4.5	4	1223	46 98	3 70	7316	"	9.5	8	2552	98 40	7 65
2871	"	5.5	5	1385	53 34	4 75							
3402	"	6.5	6	1554	59 94	5 55	1269	12.0	1.5	2	1020	39 00	2 10
3933	"	7.5	6	1690	65 04	5 75	1692	"	2.0	3	1140	43 74	2 65
4462	"	8.5	7	1859	71 64	6 35	2115	"	2.5	3	1226	46 98	2 65
4992	"	9.5	7	2002	77 10	6 60	2538	"	3.0	3	1318	50 46	2 90
6052	"	11.5	9	2348	90 57	7 60	2891	"	3.5	3	1414	54 12	3 15
							3384	"	4.0	4	1534	58 92	3 70
881	10.0	1.5	2	765	29 28	1 85	3737	"	4.5	4	1620	62 10	3 70
1175	"	2.0	2	837	31 98	1 85	4582	"	5.5	5	1843	70 86	4 75
1468	"	2.5	3	945	36 30	2 65	5428	"	6.5	6	2065	80 16	5 80
1762	"	3.0	3	1017	38 70	2 65	6274	"	7.5	7	2280	87 96	6 60
2006	"	3.5	4	1124	43 26	3 45	7110	"	8.5	7	2494	96 30	7 60
2348	"	4.0	4	1202	46 20	3 70	7956	"	9.5	8	2682	103 44	7 85
2592	"	4.5	4	1274	48 90	3 70	9658	"	11.5	9	3091	119 02	9 10
3132	"	5.5	5	1454	55 92	4 50	11350	"	13.5	10	3501	135 08	10 20
3770	"	6.5	5	1608	61 80	4 75	13042	"	15.5	12	4046	157 11	15 00
4357	"	7.5	6	1784	68 64	5 55							
4945	"	8.5	7	1971	75 96	6 60	4971	12.6	5.5	5	2003	76 98	4 75
5532	"	9.5	8	2158	83 22	7 40	5890	"	6.5	7	2276	87 90	6 60
6706	"	11.5	9	2516	97 04	8 10	6808	"	7.5	7	2452	94 50	6 60
7880	"	13.5	10	2873	110 79	9 60	7726	"	8.5	8	2672	103 08	7 40
							8644	"	9.5	8	2865	110 46	7 85
							10481	"	11.5	9	3279	126 48	9 10

Write for discounts and freight rates or state size of tank wanted, and we will quote net delivered prices.





## LIST PRICES OF ROUND TANKS.

These Prices and Weights are for two-inch Tanks.

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	ft. in.	ft. in.		lbs.				ft. in.	ft. in.		lbs.		
12317	12.6	13.5	10	3689	\$142 28	\$10 20	21761	15.6	15.5	13	5470	\$212 79	\$35 20
14153	"	15.5	12	4246	164 70	15 00							
5378	13.0	5.5	6	2138	82 44	5 80	8147	16.0	5.5	5	2686	103 08	4 95
6370	"	6.5	6	2322	89 40	5 80	9651	"	6.5	7	3048	117 72	7 25
7363	"	7.5	7	2556	98 52	6 60	11155	"	7.5	8	3370	130 50	8 95
8356	"	8.5	7	2744	106 20	6 80	12659	"	8.5	8	3604	139 80	9 15
9349	"	9.5	8	3045	117 78	9 10	14163	"	9.5	8	3922	153 48	9 60
11333	"	11.5	10	3481	134 64	10 55	17171	"	11.5	9	4529	177 12	12 00
5800	13.6	5.5	6	2187	84 30	5 55	20179	"	13.5	11	5080	197 46	13 60
6870	"	6.5	6	2388	91 92	5 80	23187	"	15.5	13	5678	220 98	15 90
7940	"	7.5	7	2984	101 04	6 60	26195	"	17.5	14	6288	245 04	43 20
9010	"	8.5	7	2816	108 36	6 80	29203	"	19.5	16	6966	272 19	51 20
10080	"	9.5	8	3129	121 02	9 10	8664	16.6	5.5	5	2905	111 36	4 95
12220	"	11.5	10	3580	138 54	10 55	10264	"	6.5	7	3283	126 66	7 25
6237	14.0	5.5	5	2262	87 00	5 20	11864	"	7.5	8	3611	139 68	8 95
7388	"	6.5	6	2518	97 02	6 20	13464	"	8.5	8	3854	148 86	9 15
8540	"	7.5	7	2765	106 68	7 00	15064	"	9.5	8	4178	161 70	9 60
9691	"	8.5	8	2819	116 58	8 05	18264	"	11.5	9	4799	186 18	12 00
10843	"	9.5	8	3265	126 18	8 85	21464	"	13.5	11	5385	209 04	13 60
13146	"	11.5	10	3796	147 12	11 00	24664	"	15.5	13	5985	232 62	15 90
15449	"	13.5	10	4280	165 90	12 35	9197	17.0	5.5	5	2956	113 64	4 95
16600	"	15.5	12	4807	168 68	16 10	10894	"	6.5	7	3382	131 04	7 25
6691	14.6	5.5	5	2452	94 20	5 20	12592	"	7.5	7	3627	140 22	8 15
7925	"	6.5	6	2716	104 52	6 20	14290	"	8.5	8	3933	152 23	9 15
9160	"	7.5	7	2970	114 44	7 00	15988	"	9.5	9	4273	165 84	10 40
10395	"	8.5	8	3234	124 80	8 05	19384	"	11.5	9	4865	188 88	12 00
11631	"	9.5	8	3488	134 70	8 85	22639	"	13.4	11	5457	211 92	13 60
14102	"	11.5	10	4035	156 30	11 00	26035	"	15.4	13	6085	236 64	15 90
16573	"	13.5	10	4532	175 56	12 35	29431	"	17.4	15	6942	271 62	17 50
7160	15.0	5.5	5	2530	97 08	4 95	9746	17.6	5.5	5	3113	119 64	4 95
8412	"	6.5	6	2820	108 54	6 20	11545	"	6.5	7	3554	137 64	7 25
9804	"	7.5	7	3093	120 78	7 25	13344	"	7.5	7	3798	146 82	8 15
11126	"	8.5	8	3386	130 86	8 95	15143	"	8.5	7	4114	160 68	9 15
12448	"	9.5	8	3696	143 23	8 95	16943	"	9.5	8	4416	170 94	9 60
15090	"	11.5	9	4130	160 38	9 95	20541	"	11.5	9	5082	196 98	12 00
17735	"	13.5	11	4730	183 36	12 70	23990	"	13.4	11	5690	220 98	13 60
7645	15.6	5.5	5	2599	99 79	4 95	27588	"	15.4	13	6334	246 30	15 90
9057	"	6.5	6	2884	111 00	6 20	31186	"	17.4	15	7222	282 42	17 50
10468	"	7.5	7	3165	122 04	7 25	10312	18.0	5.5	6	3372	130 50	16 30
11880	"	8.5	7	3476	134 40	8 95	12215	"	6.5	7	3689	142 86	17 90
13390	"	9.5	8	3789	148 32	8 95	14118	"	7.5	8	4091	159 00	19 70
16114	"	11.5	9	4226	163 26	9 95	16021	"	8.5	9	4433	172 50	22 20
18937	"	13.5	11	4840	187 80	12 70	17924	"	9.5	9	4689	182 10	22 20
							21730	"	11.5	10	5370	208 86	26 10
							25378	"	13.4	11	6041	235 26	34 00

Write for discounts and freight rates or state size of tank wanted, and we will quote net delivered prices.



## LIST PRICES OF ROUND TANKS.

These Prices and Weights are for two-inch Tanks.  
See Key to Price List on Page 4.

Gallons.	Inside Bottom Diameter.	Inside Depth.	No. of Flat Hoops.	Shipping Weight.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.	Gallons.	Inside Bottom Diameter.	Inside Depth.	No. of Flat Hoops.	Shipping Weight.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.
	ft. in.	ft. in.		lbs.				ft. in.	ft. in.		lbs.		
29184	18.0	15.4	12	6750	\$263 34	\$36 10	36762	19.0	17.4	13	8057	\$314 88	\$42 40
32990	"	17.4	13	7408	289 08	39 50							
36796	"	19.5	16	8203	321 02	58 00	12101	19.6	5.5	6	3871	150 24	16 00
							14335	"	6.5	7	4305	167 76	19 40
10891	18.6	5.5	6	3580	138 36	14 70	16569	"	7.5	8	4673	183 78	21 90
12902	"	6.5	7	3901	150 90	15 90	18803	"	8.5	8	5026	196 08	24 00
14912	"	7.5	8	4309	167 34	19 70	21037	"	9.5	8	5367	209 70	28 50
16923	"	8.5	9	4655	180 96	22 20	25502	"	11.5	9	6109	239 22	34 00
18934	"	9.5	9	4913	190 62	22 20	29784	"	13.4	10	6653	259 14	34 00
22954	"	11.5	10	5591	217 26	26 10	34252	"	15.4	12	7539	294 90	39 00
26806	"	13.4	11	6280	244 38	34 00	38726	"	17.4	13	8246	323 22	42 50
30826	"	15.4	12	7000	272 94	36 10							
34846	"	17.4	14	7754	303 00	42 00	12729	20.0	5.5	6	4036	157 02	16 00
							15079	"	6.5	7	4347	168 90	18 50
11488	19.0	5.5	6	3780	146 58	16 00	17429	"	7.5	8	4792	186 84	21 90
13609	"	6.5	8	4217	164 28	20 60	19779	"	8.5	8	5072	197 34	21 90
15730	"	7.5	8	4485	174 36	20 60	22130	"	9.5	8	5352	207 84	21 90
17852	"	8.5	8	4830	187 80	21 90	26830	"	11.5	9	6160	240 00	29 40
19972	"	9.5	9	5176	201 36	21 90	31334	"	13.4	10	6885	268 38	31 90
24212	"	11.5	10	5890	229 50	31 90	36035	"	15.4	12	7734	302 40	39 00
28279	"	13.4	11	6504	253 08	33 50	40725	"	17.4	13	8459	329 64	42 40
32520	"	15.4	12	7366	287 82	39 00	45435	"	19.4	15	9281	362 46	48 30

NOTE.—These prices on all tanks up to and including 20 feet in diameter are based on 2-inch thick material; all tanks 22 feet in diameter and over are based on 2½ and 3-inch thick material. All tanks above 20,000 gallons capacity are ordinarily made of thicker material than 2-inch. However, we often make tanks 20 feet diameter and 20 feet high of 2-inch Cypress.

### THE FOLLOWING PRICES ARE FOR 3-INCH TANKS.

See Key to Price List on Page 4.

15402	22.0	5.4	5	7773	\$294 36	\$12 60	60897	26.0	15.4	12	18904	\$705 61	\$70 50
18246	"	6.4	6	8496	320 28	15 60	68840	"	17.4	14	21213	800 11	94 50
21090	"	7.4	7	9279	348 71	19 60	76784	"	19.4	16	23261	890 12	111 00
23933	"	8.4	8	9953	379 72	21 20	84727	"	21.4	17	25060	973 66	123 00
26777	"	9.4	8	10579	409 28	24 60	92761	"	23.4	19	27031	1067 92	138 00
32464	"	11.4	9	11956	445 26	27 00							
37914	"	13.4	10	13329	494 04	32 00	70627	28.0	15.4	14	21997	829 63	100 50
43601	"	15.4	12	14878	550 02	40 00	79840	"	17.4	16	24130	921 76	116 50
49289	"	17.4	14	16773	630 00	56 00	89052	"	19.4	18	26212	1014 96	130 50
54976	"	19.4	16	18628	712 69	70 00	98264	"	21.4	19	28133	1105 98	141 00
60663	"	21.4	17	20120	784 24	77 00	107476	"	23.4	20	30149	1203 22	154 50
45121	24.0	13.4	10	15002	563 23	35 00	81077	30.0	15.4	14	23916	915 73	100 50
51889	"	15.4	12	16776	627 55	45 00	91653	"	17.4	16	26137	966 54	115 50
58657	"	17.4	14	18582	706 10	56 00	102228	"	19.4	18	28408	1114 16	130 50
65426	"	19.4	16	20590	796 13	70 00	112803	"	21.4	19	30555	1214 44	144 00
72194	"	21.4	17	22207	874 10	77 00	123379	"	23.4	21	32670	1317 92	157 50
78962	"	23.4	19	23926	958 37	86 00							

Write for discounts and freight rates or state size of tank wanted, and we will quote net delivered prices.

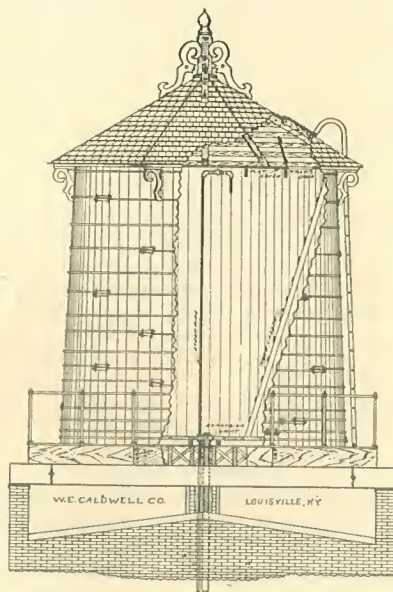




## GRAVITY TANKS TO SUIT INSURANCE REQUIREMENTS.

These prices are for tanks built to suit the requirements of either the Factory Mutual Insurance Companies or any of the Stock Companies. Such tanks are required to be built of a certain size for a given capacity and to be provided with round iron (not steel) hoops of a specified number and size. They must be constructed of 2½-inch material if of 20,000 gallons or less, and of 3-inch for larger sizes.

If furnished complete, the tanks must be provided with a Shingled Conical Roof and an Inside Flat Cover for frost proofing, together with an Indicator or Tank Register, an Inside Wooden Ladder, an Outside Iron Ladder extending three feet above tank with ends curved over, and sub-joint or bed pieces for the support of the bottom of tank.



Prices are given for the tanks alone and for the tanks complete with the other accessories mentioned.

Gallons.	Inside Diameter.	Inside Depth.	No. Round Hoops.	Shipping Weight.	Price Complete.	Same Tank with Plain Conical Cover, Cypress Shingles, Flat Cover, Ladders, Indicator and Damage.	Shipping Weight.	Price Complete.
	ft. in.	ft. in.		lbs.			lbs.	
5000	10.0	11.4	10	3876	\$151 65	5000	5639	\$219 37
7500	11.6	11.4	10	4535	176 55	7500	7043	262 00
10000	13.6	11.4	11	5475	216 20	10000	8799	318 93
12000	13.6	13.4	14	6274	250 15	12000	9598	354 26
15000	14.6	13.4	14	6952	275 40	15000	10282	399 88
20000	15.6	15.4	16	8514	341 65	20000	12459	471 08
25000	17.6	15.4	16	11470	453 65	25000	16357	605 47
30000	18.0	17.4	20	13426	552 75	30000	18413	707 33
40000	19.6	19.4	22	16598	708 38	40000	22483	892 66
50000	22.0	19.4	23	19580	840 70	50000	26729	1056 56
60000	24.0	19.4	23	22475	999 10	60000	31322	1257 88
75000	24.6	23.4	31	28243	1317 90	75000	37090	1629 40
100000	28.6	23.4	34	35077	1655 60	100000	49727	2147 22

"THE TANK  
WITH A  
REPUTATION"

## DIFFERENT TANK WOODS.

### CYPRESS.

Cypress is everywhere recognized as the ideal wood for tank purposes. It is the most durable wood known and, being very straight grained will warp and twist but little. It is cut from very tall, straight growing timber where the first limb is often sixty feet from the ground, so it is almost wholly free from knots, and where there are any knots at all, they are thoroughly tight and as sound and durable as the rest of the plank. It also shrinks and swells less than other woods, and it will not give off any taste or odor or color. For this reason it is especially suitable for cider and vinegar, fruit syrups, coloring dyes and other preparations that would be injured by any contamination from the wood.

Cypress Tanks are used almost exclusively for chemicals and acids except for Sulphuric Acid, and for hot liquids, as nothing else will give as lasting service.

All of our Cypress is thoroughly kiln-dried.

### WHITE PINE.

White Pine is used almost altogether for Water Tanks, where something cheaper than Cypress is wanted, and for Brine Tanks in Pickle Works. This lumber has more knots than Cypress, but our tank plank is cut to our own specifications, and only thoroughly sound and tight knots are accepted, and these must have no black rims, so the value of the lumber is in no wise impaired for tank purposes. This material, when carefully selected stock, such as ours, is used, makes a good, serviceable tank that will last for years.

Our White Pine is all air-dried.

### YELLOW PINE.

Of late years the use of Yellow Pine for tanks has increased to a large extent, and particularly for Acid Tanks, Stuff Chests, etc., for Paper Mill work. For Sulphuric Acid nothing else will answer. It is also extensively employed in the manufacture of the ordinary Water Tank, and especially for large Tanks, for which stock required can be obtained more easily than in any other kind of Lumber, and at a very little additional cost for lengths and thickness above the standard, which in Cypress and White Pine very considerably augments the cost.

We carry a large stock of Yellow Pine in lengths up to 30 feet, and in 2, 3, 4, 6 and 8-inch thicknesses.

The durability of Yellow Pine is fully equal to White Pine, and the grading of the lumber is just the same.

### YELLOW POPLAR.

This wood, like Cypress, does not impart any taste, odor or color to liquids that come into contact with it.

Poplar is very close grained, and is used especially for tanks to hold medicines, whiskey and other volatile liquids.

We are unusually careful and painstaking in making tanks for these purposes, knowing how important it is to have close, tight-fitting joints.

The quality of lumber employed is the same as in Cypress.





## THE DURABILITY OF CYPRESS.

### FROM U. S. GOVERNMENT CIRCULAR NO. 19.

Department of Agriculture, Division of Forestry, 1898.

"One of the most highly valued properties of Cypress is its great durability. Rived Shingles of Cypress are claimed to have endured over eighty years in Philadelphia and Baltimore. Posts and piling of Cypress are sought for their durability.

### Cypress Excels for Tank Material,

and of late, builders of greenhouses, with whom a Hemlock or Oak board decays in one to three years, are beginning to use Cypress for frames and partitions. In the woods old Cypress logs endure apparently for centuries—and a great deal of good shingle timber has been dug out of the ground apparently as sound as ever, and certainly as much appreciated for this purpose as logs of standing trees.

"In general it is probably safe to say that the heartwood of Cypress last two or three times as long as the heartwood of Pine."

### FROM THE SCIENTIFIC AMERICAN

Of December, 1891.

"Cypress timber, owing to its beautiful finish and durability and lightness, has long been in favor in the Gulf Coast States, and is fast growing in favor in the more northern States, especially among those who have tested and know its many good qualities.

"Cypress is especially adapted to building Tanks, Tubs, and Vats, and when used for such purposes it never will decay.

"It also makes better Sash, Doors, Blinds, and Frames than White Pine, and many railroads use it for water tanks. It stands the weather better than White Pine; does not warp or twist, and does not shrink or swell.

"No lumber in the world equals it for tanks, vats, siding, or weather boards, exposed floors or shingles. Siding can be used and not painted, and will last fifty years.

"The durability of Cypress is illustrated by the examples of roofs in Mobile and New Orleans in good order laid sixty years ago."

### FROM THE NORTHWESTERN LUMBERMAN

Of June, 1894.

"The phenomenal durability of Cypress is believed to proceed from the presence in its natural chemical composition of an acid having the active qualities of creosote. There is, of course, some natural cause for its demonstrated proof against the ravages of water, air, and time, and that cause is equally, of course, of a chemical character. In other words, nature seems to have treated Cypress in a manner somewhat corresponding, in its results, at least, to that of the artificial use of creosote as a preservative."

### FROM POPULAR MECHANICS.

"During the excavation for a sewer system in the older portion of New Orleans quite a number of unknown and forgotten burial grounds were discovered, and many coffins, constructed of Cypress, dug up in perfectly sound condition. Some of these, from the coins and buttons found, undoubtedly contain the remains of Spanish soldiers.

"One of the coffins discovered bore the inscription 'Hendric Miller, 1803,' carved in the wood. This coffin, except for the discoloration of the wood, was as sound as the day it was made. The hand-forged nails used in the construction of the coffin were not rusted where driven into the wood, a circumstance not at all in accordance with the theory sometimes advanced that Cypress contains an acid which will rust nails."



## THE HOOPING OF TANKS.

The hooping of a tank is the most important point about its construction, for upon the strength of the hoops depends the safety of the tank.

The very best quality of material may be put into the tank, it may be manufactured in a first-class manner and erected properly, and all this avail nothing if the hoops are not strong enough to hold it together against the weight and pressure of the water.

There should, of course, be sufficient strength in the hoops not only just to hold against the pressure, but to allow a proper margin or factor of safety, which should be not less than four to one; in other words, if the tensile strength of the steel is estimated at 60,000 pounds, the hoops furnished should be of such a number and size that when properly spaced on the tank, no more than 15,000 pounds stress per square inch of section should come on any hoop.

It may be a strong statement to make, but it is true, nevertheless, that a great many tank manufacturers are not able to calculate the size of hoops required for a tank, and have to depend altogether upon their general ideas of about what seems the proper number and size to use, and this, unfortunately, does not, by any means, apply to just the small firms that build tanks.

Under these circumstances, a desire to meet the views of prospective purchasers as to price offers a strong temptation to such a manufacturer to conclude he will be safe in furnishing hoops a little lighter or fewer in number than he himself considers to be safe, which is only another way of pointing out the advisability of dealing with thoroughly responsible and competent manufacturers, as you then will run no risk of this kind.

The tendency toward the use of round hoops is increasing at a rapid rate, as their superiority is becoming more widely known and better appreciated. This style of hoop is several times as thick as a flat hoop of the same weight, and there is consequently several times the metal to rust through before the hoop gives out; moreover, since the corrosion of hoops is principally from the inside, where the hand bears on the staves, the point of attack is materially lessened in the round hoops, since only a small part of it bears on the tank.

Besides, practically the entire surface of the round hoop can be examined, and consequently, the condition of the hoops easily determined, and, in addition, they can be kept well painted, whereas, flat hoops can be painted only on one side, after they are put on the tank.

The allowable working strain for round hoops is given below:

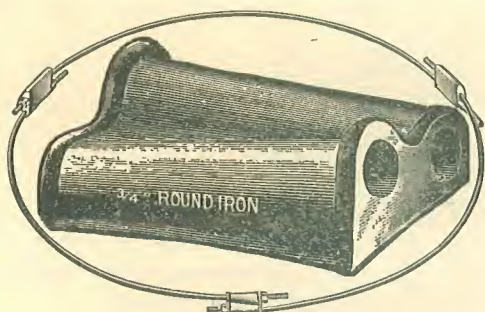
$\frac{1}{2}$ inch.....	1,650 pounds.	$\frac{7}{8}$ inch.....	6,090 pounds.
$\frac{5}{8}$ inch.....	3,315 pounds.	1 inch.....	8,355 pounds.
$\frac{3}{4}$ inch.....	4,230 pounds.	$1\frac{1}{8}$ inch.....	10,350 pounds.

The proper spacing of the hoops is also of great importance, as otherwise some of the hoops may have to bear twice the strain they are intended to. A plan should be obtained for the spacing. We have these hoop plans made up for all sizes of tanks up to 30 feet in diameter.

As threads are cut on round hoops for the draw lugs, the strength of these hoops must necessarily be based on the diameter of the hoops under the threads, and, therefore, the total weight of the round hoops required for any tank must be considerably more than would be necessary in flat hoops for that same tank.





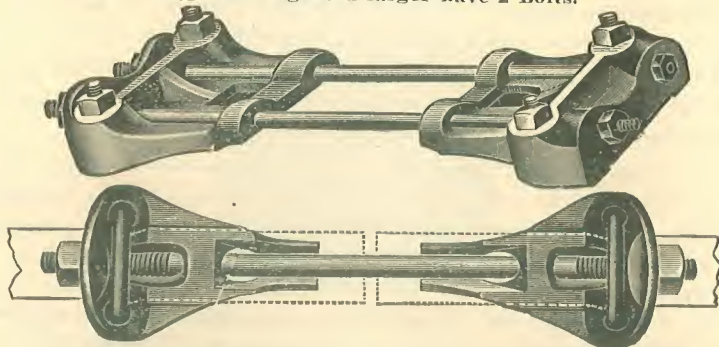


## HOOP LUGS OR FASTENERS.

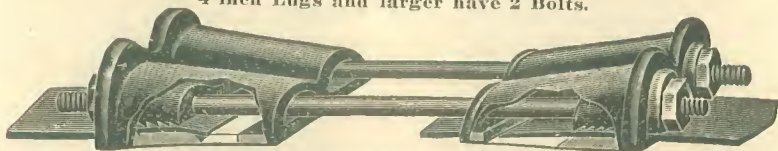
**MALLEABLE IRON  
ROUND LUGS.**

1/2 inch	.....each,	\$0.30
5/8 inch	....."	.40
3/4 inch	....."	.50
7/8 inch	....."	.60
1 inch	....."	.80
1 1/8 inch	....."	1.00

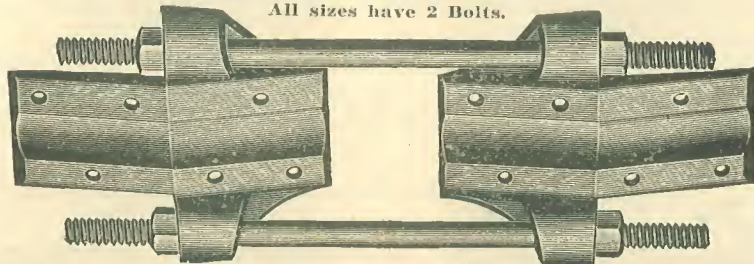
CALDWELL PATENT FLAT HOOP LUG—Two Views.  
3½ inch Lugs and larger have 2 Bolts.



**TECKTONIUS FLAT HOOP FRICTION LUG.**  
4 inch Lugs and larger have 2 Bolts.



**CALDWELL RIVETED LUG.**  
All sizes have 2 Bolts.



Price List of the Tecktonius and Caldwell Patent and Riveted Lugs.					
		Per pair.			Per pair.
1 ½	inch Patent Lugs.....	\$0.40	3 ½	inch Patent Lugs.....	\$1.50
2	“ “ “ “ .....	.60	4	“ “ “ “ .....	2.00
2 ½	“ “ “ “ .....	.80	5	“ “ “ “ .....	3.00
3	“ “ “ “ .....	1.00	6	“ “ “ “ .....	3.50

"THE TANK  
WITH A  
REPUTATION"

## TANK TOWERS.

We build three different types of Steel Towers and two of Wood, as illustrated on the following pages. These are constructed in the standard heights listed, but can be furnished in any other height wanted.

The Steel Towers are of the Angle Column, Tubular Column, and Latticed Column designs. The Angle Column Towers are supplied principally for the smaller sizes of tanks, and are either Painted or Galvanized. The Tubular and Latticed Column Towers are supplied for tanks of any size wanted, but the Latticed Column design is generally too expensive for tanks of less than 15,000 gallons capacity.

The Tank Foundations at the top of the Towers are furnished of Heavy Timbers of the best Long-leaved Yellow Pine, or Steel I-Beams, as preferred, or with I-Beams for the main Girders or Caps, and Timbers for the joist and sub-joist or dunnage. The Tank Foundation in either case is constructed to extend out beyond the tank with a twenty-four to thirty-inch Walk-Way and Hand-Railing. An Iron Ladder is supplied to extend from a point ten or twelve feet above ground, up three feet above tank with the ends curved over to the Roof, except for the Latticed Column Towers, in which one of the columns is used as the ladder to within a few feet of the bottom of the tank, from where a ladder extends out and up to the top of the tank as mentioned.

All of our Towers are designed in strict accordance with the best engineering practice of to-day, all members being properly proportioned for the load of the tank and contents and the structure itself, with due allowance for wind strains.

Over 60 illustrations of Tank and Tower outfits we have erected throughout the United States, Canada and Mexico, are contained in a handsome Embossed View Book we issue, that will be sent to anyone interested in this class of work.

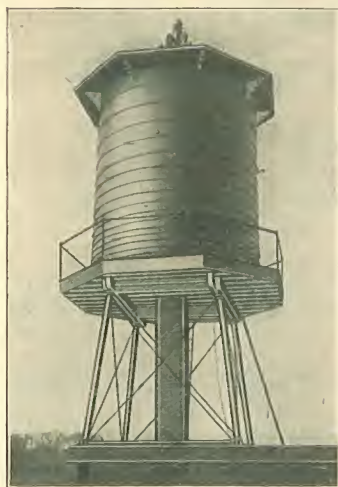
As an adjunct to this, we also have for distribution a 96-page booklet of testimonial letters from concerns and individuals, prominent, and otherwise, which say all that we can't, with becoming modesty, say for ourselves as to the merits of our work.







Libbey Glass Co., Toledo, Ohio.  
20,000 Gallon Cypress Tank, 51 ft. Tubular Column Steel Tower.



Davenport Fire Arms Co., Norwich,  
Conn.  
20,000 Gallon Cypress (Roof) Tank.  
15 ft. Tubular Column Steel Tower.



Metairie Cemetery Assn., New Or-  
leans, La.  
10,000 Gallon Cypress Tank.  
27 ft. Tubular Column Steel Tower.  
10 ft. Galvanized Windmill.

"THE TANK  
WITH A  
REPUTATION"



Farwell Mills, Lisbon, Maine.  
50,000 Gallon Cypress Tank. 75 ft. Tubular Column Steel Tower.



Utica Drop Forge & Tool Co., Utica, New York.  
35,000 Gallon Hemispherical Bottom Steel Tank,  
100 ft. Latticed Column Steel Tower.





H. Waterbury & Sons Co.,  
Oriskany, New York,  
30,000 Gallon Flat Bottom  
Steel Tank. 75 ft. Tubular  
Column Steel Tower.



Union Stave Co., New Orleans, La.  
10,000 Gallon Flat Bottom Steel  
Tank.  
80 ft. Latticed Column Steel Tower.

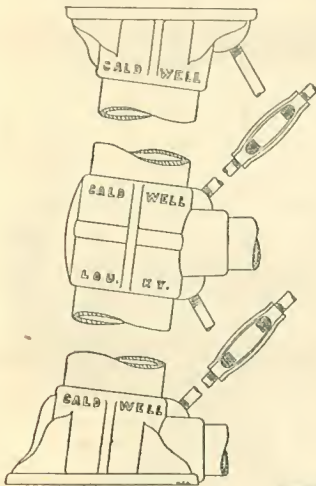
"THE TANK  
WITH A  
REPUTATION"

## PATENTED SECTIONAL TUBULAR COLUMN STEEL TOWER.

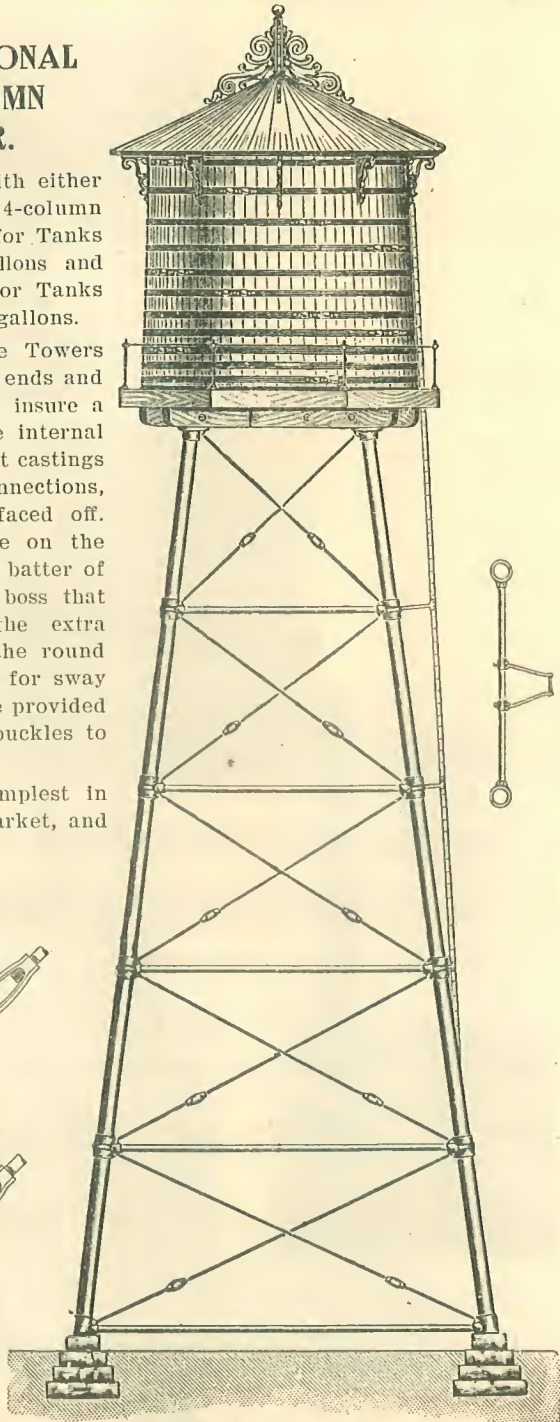
This Tower is built with either 4 or 12 columns. The 4-column Towers are constructed for Tanks from 1,000 to 40,000 gallons and the 12-column Towers for Tanks from 50,000 to 100,000 gallons.

The columns of these Towers are cut off square at the ends and these faced in a lathe to insure a true bearing against the internal flange in the heavy socket castings that make the joint connections, this flange also being faced off. These sockets are made on the proper angle to suit the batter of the Tower, and have a boss that is tapped to receive the extra long threaded ends of the round steel rods that are used for sway bracing. These rods are provided with drop forged turn buckles to secure proper tension.

The Tower is the simplest in design of any on the market, and



"THE TANK  
WITH A  
REPUTATION"



30,000 Gallon Cypress Tank.  
63 Foot Tubular Column Steel Tower.  
See Price List on Page 21.



the easiest to erect as the use of socket connections does away with all riveting and makes it unnecessary to use skilled labor in putting it up. Any good carpenter can erect the structure with common labor. Practically no scaffolding is required as the sections are short and each is just like the others, and one section can be used from which to erect the next. A ginpole with ropes and blocks and wrenches are all the tools required.

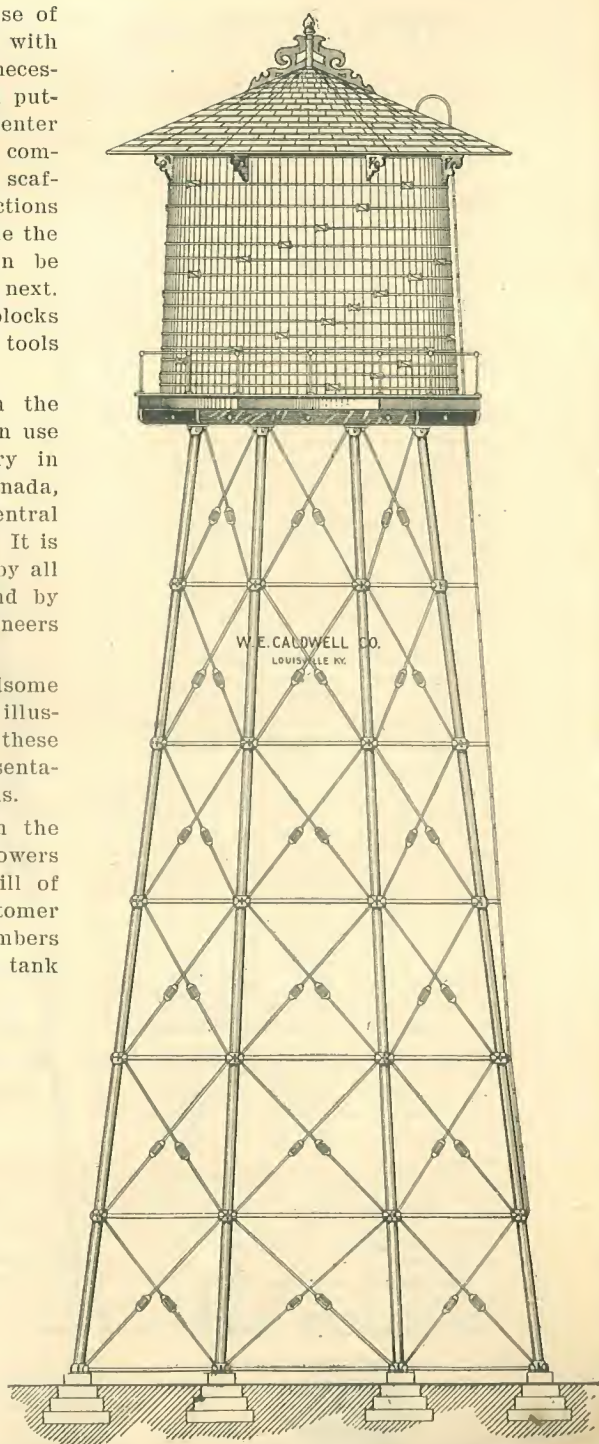
This Tower has been on the market for 20 years and is in use in every state and territory in this country, and in Canada, Mexico, the West Indies, Central and South America as well. It is endorsed and recommended by all the Insurance Companies and by leading architects and engineers everywhere.

Let us send you our Handsome Embossed View Book with illustrations of about sixty of these structures furnished representative concerns and institutions.

When desired, we furnish the iron work alone for these Towers with a detailed plan and bill of material by which the customer may himself supply the timbers that form a support for the tank at top of Tower.

See Price List on Page 21.

75 ft. 12 Column Class X  
Tubular Column.  
Steel Tower and 50000  
Gallon Cypress Tank.



## BELL TOWERS.

Where a strong, graceful and durable tower for carrying a heavy bell is wanted, nothing else can be found as well suited to the purpose as our 4-column steel tower here illustrated.

These towers are built on the same design as our Standard Tank Towers, and are of such weight and strength, and so well braced, as to insure thorough stability under all conditions, with due allowance for the strains put upon the structure by the swinging of the bell.

The first cost is not much greater than a first-class wooden structure, and when it is considered that the life of the latter is only a few years at the most, whereas our steel tower will endure for a life-time and requires no care or expense after once up, except an occasional coat of paint, it is obvious that the steel support is far more economical in the long run. Then with this tower there is never any danger of its falling down or blowing over, which is an assurance it is worth a good deal to have.

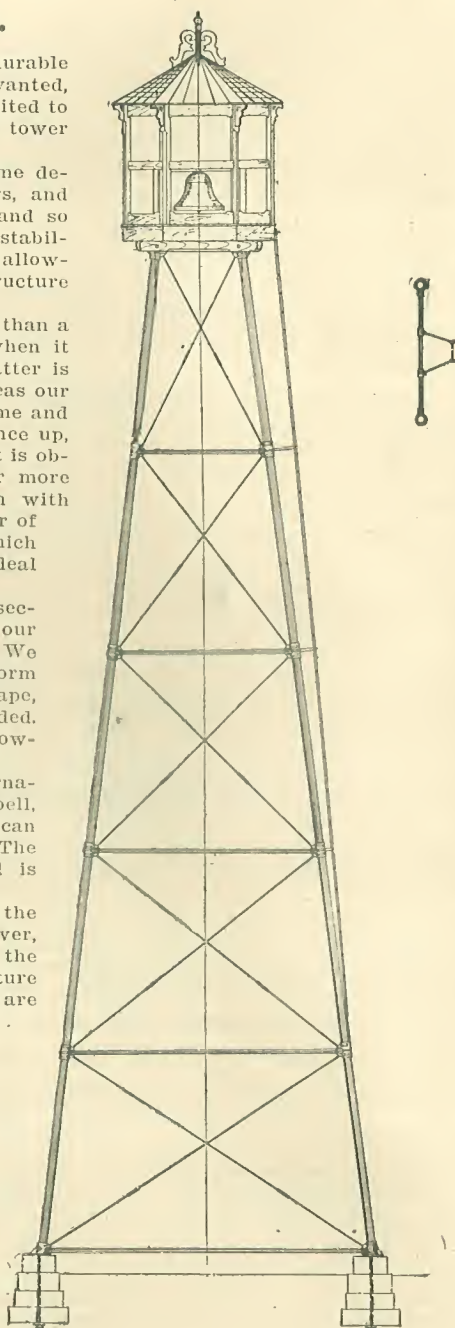
They are constructed in 12-foot sections and of the same heights as our other towers, as given on page 25. We furnish them complete with platform at the top, which is octagonal in shape, and for which a hand-rail is provided. A ladder is also supplied with all towers, as shown in cut.

We also generally supply an ornamental canopy or cover for the bell, with supports for same, but this can be omitted if customer prefers. The frame work for carrying the bell is never furnished by us.

Plans and specifications for the foundations are sent with every tower, and a plan for the erection of the tower and platform. As the structure is built in short sections, which are tied together by socket connections instead of being riveted, the erection can be done by a local mechanic. We fit everything carefully in our shop, so that it will readily go together at destination.

Prices, plans and specifications will be cheerfully sent to any one considering the erection of such a tower. We shall also be glad to give references from customers.

Use prices on Page 21—under Class O—for list prices for these Towers, and write for discount; also references.





## PRICE LIST TUBULAR COLUMN STEEL TOWERS.

## Four Column Type.

CLASS O—For 1,000 to 1,500 Gallon Tanks.			
Height in Feet.	Weight Pounds.	Price with Timber Foundation Under Tank.	*Estimated Cost of Foundations in Ground.
15	1,569	\$ 74 25	\$15 00
27	2,113	114 90	15 00
39	2,713	158 50	15 00
51	3,418	208 65	15 00
63	4,185	262 30	15 00
75	5,000	318 25	15 00

Extra for I-Beam Foundation under Tank, \$17.80.

CLASS A—For 2,000 to 3,000 Gallon Tanks.			
15	2,226	95 75	20 00
27	2,933	145 30	20 00
39	3,714	198 60	20 00
51	4,525	255 15	20 00
63	5,436	315 45	20 00
75	6,361	378 25	20 00

Extra for I-Beam Foundation under Tank, \$22.25.

CLASS B—For 4,000 to 6,000 Gallon Tanks.			
15	3,301	130 80	25 00
27	4,317	198 35	25 00
39	5,419	268 15	25 00
51	6,650	344 95	25 00
63	7,929	425 75	25 00
75	9,263	507 80	25 00

Extra for I-Beam Foundation under Tank, \$50.60.

CLASS C—For 7,000 to 10,000 Gallon Tanks.			
15	4,935	180 75	32 50
27	6,414	272 80	32 50
39	8,000	371 10	32 50
51	9,712	475 90	32 50
63	11,548	586 05	32 50
75	13,507	704 80	32 50

Extra for I-Beam Foundation under Tank, \$98.60.

CLASS D—For 12,000 to 15,000 Gallon Tanks.			
15	6,721	\$233 80	\$40 00
27	8,443	350 85	40 00
39	10,281	475 40	40 00
51	12,238	607 20	40 00
63	14,318	746 25	40 00
75	16,518	902 55	40 00

Extra for I-Beam Foundation under Tank, \$154.10.

CLASS E—For 15,000 to 20,000 Gallon Tanks.			
15	8,640	297 65	50 00
27	10,828	436 45	50 00
39	13,165	583 25	50 00
51	15,652	738 55	50 00
63	18,206	901 85	50 00
75	21,086	1,069 40	50 00

Extra for I-Beam Foundation under Tank, \$177.10.

CLASS F—For 20,000 to 30,000 Gallon Tanks.			
15	10,515	364 25	60 00
27	13,083	523 55	60 00
39	15,747	701 35	60 00
51	18,677	882 15	60 00
63	21,865	1,071 20	60 00
75	24,939	1,268 50	60 00

Extra for I-Beam Foundation under Tank, \$261.15.

CLASS G—For 30,000 to 40,000 Gallon Tanks.			
15	16,228	474 15	75 00
27	19,384	678 05	75 00
39	22,723	891 85	75 00
51	26,243	1,115 05	75 00
63	29,949	1,348 60	75 00
75	33,850	1,592 15	75 00

Extra for I-Beam Foundation under Tank, \$325.50.

## Twelve Column Type.

CLASS X—For 40,000 to 50,000 Gallon Tanks.			
27	20,700	\$ 851 25	
39	25,700	1,140 40	
51	30,825	1,435 30	
63	36,075	1,737 00	\$110 00
75	41,430	2,044 65	
87	46,925	2,359 05	
100	52,525	2,680 15	

Extra for I-Beam Foundation under Tank, \$131.10.

CLASS Y—For 50,000 to 65,000 Gallon Tanks.			
27	26,300	1,090 80	
39	32,760	1,462 70	
51	39,300	1,842 05	
63	46,000	2,228 85	132 00
75	52,800	2,623 75	
87	59,800	3,026 30	
100	67,000	3,437 80	

Extra for I-Beam Foundation under Tank, \$215.26.

CLASS Z—For 65,000 to 80,000 Gallon Tanks.			
27	28,750	\$1,256 05	
39	36,000	1,673 95	
51	43,400	2,119 75	
63	51,000	2,572 30	\$132 00
75	58,650	3,034 85	
87	66,400	3,501 40	
100	74,500	3,980 50	

Extra for I-Beam Foundation under Tank, \$242.65.

CLASS W—For 80,000 to 100,000 Gallon Tanks.			
27	37,900	1,762 35	
39	47,000	2,340 90	
51	56,000	2,988 45	
63	65,200	3,526 00	160 00
75	74,600	4,133 55	
87	84,250	4,748 10	
100	94,300	5,373 20	

Extra for I-Beam Foundation under Tank, \$362.40.

\*The Foundations in ground may be of concrete, brick or stone. We supply plans and specifications for building them.

The heights above given are standard, and are from the ground or grade line to the bottom of the tank.

The prices of Towers include the Foundation at top of Tower for Tank, with extension for Octagonal Walk-way with Iron Hand-rail and with Iron Ladder, as shown in cut on opposite page.

These Towers take a very low rate of freight. Write for delivered prices. We also build the four-column Towers in heights of 87 and 100 feet when desired.



## LATTICED COLUMN STEEL TOWER.

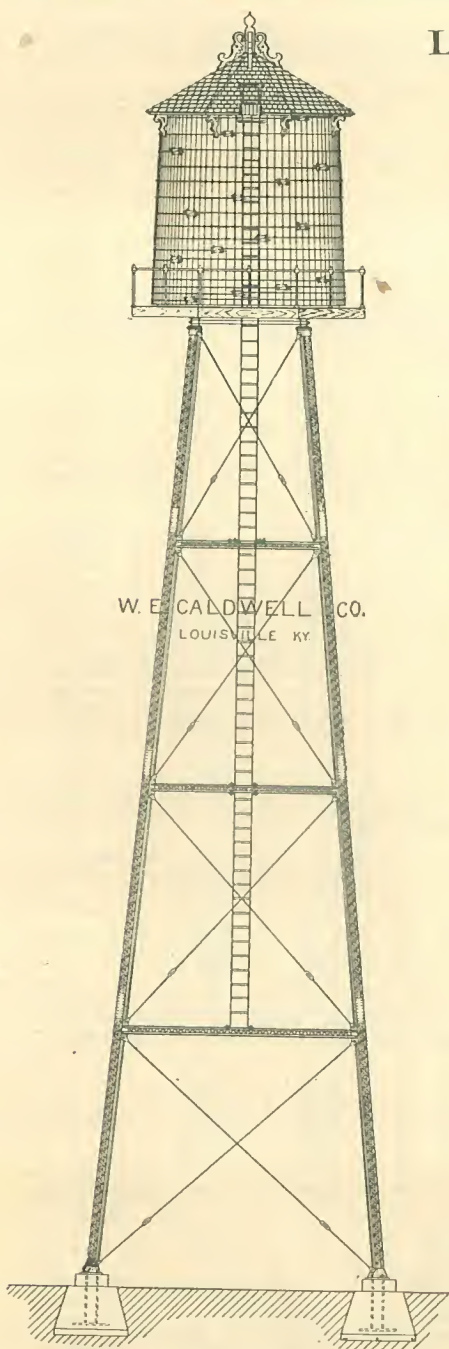
We build this type of Tower with 4, 8, 12 and 16 columns, for tanks from 10,000 gallons up to 200,000, and even larger. When used with steel tanks of large size, the hemispherical bottom type of tank is employed as this is more economical than the flat bottom type on account of elimination of the heavy I-Beam foundation that is required at the top of tower to support the tank. With the Hemispherical Bottom Tank the columns are riveted to the sides of the tank.

In this tower heavy Z-Bars are used for the columns and these are laced together with latticed bars securely riveted thereto. Either Angles or I-Beams are used for the struts. The sway braces are square Steel Rods with standard pin and clevis connections to gusset plates riveted to the columns. With Wooden Tanks the foundation at top of tower is usually of Yellow Pine Timber but may be of Steel I-Beam construction the same as used under flat bottom steel tanks.

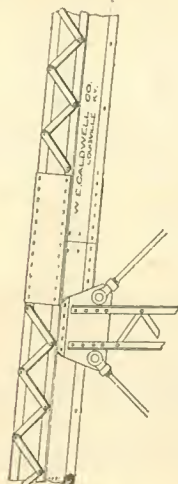
The tower can be furnished in any height, but is regularly constructed in multiples of 10 feet.

When desired, we furnish the iron-work alone for these towers with a detailed plan and bill of material by which the customer may himself supply the timbers that form a support for the tank at top of tower.

See price list on page 23.



30,000-Gallon Cypress Tank.  
80-foot Latticed Column Steel  
Tower.



"THE TANK  
WITH A  
REPUTATION"



## PRICE LIST OF LATTICED COLUMN STEEL TOWERS.

CLASS L-D For 15,000 Gallon Tanks.				CLASS L-F For 25,000 and 30,000 Gallon Tanks.			
Height ft.	Weight lbs.	Price with I Beam Girders and Yellow Pine Joist Founda- tion under Tank.	Estimated Cost of Foundations in Ground.	Height ft.	Weight lbs.	Price with I-Beam Girders and Yellow Pine Joist Founda- tion under Tank.	Estimated Cost of Foundations in Ground.
20	6943	\$378 61	\$10 00	20	12721	645 77	\$60 00
30	8808	532 14		30	14111	760 53	
40	9866	619 52		40	16667	970 34	
50	12155	807 64		50	18128	1090 74	
60	13115	887 18		60	21945	1403 57	
70	15783	1105 07		70	21052	1575 83	
80	16705	1206 96		80	21649	1626 26	
				90	30955	2141 65	
				100	33324	2335 53	
Extra for I-Beam Joist under Tank, \$85.60.				Extra for I-Beam Joist under Tank, \$118.00.			
CLASS L-E For 20,000 Gallon Tanks.				CLASS L-G For 40,000 Gallon Tanks.			
Height ft.	Weight lbs.	Price with I Beam Girders and Yellow Pine Joist Founda- tion under Tank.	Estimated Cost of Foundations in Ground.	Height ft.	Weight lbs.	Price with I-Beam Girders and Yellow Pine Joist Founda- tion under Tank.	Estimated Cost of Foundations in Ground.
20	9200	491 75	\$50 00	20	15865	795 08	\$75 00
30	10908	639 30		30	17686	945 00	
40	12719	781 36		40	21965	1294 46	
50	13362	835 00		50	22683	1353 10	
60	17197	1149 35		60	28348	1570 73	
70	18647	1267 77		70	28994	1868 49	
80	21679	1516 43		80	32493	2154 25	
90	25980	1868 79		90	35242	2378 74	
100	31045	2283 52		100	39859	2755 81	
Extra for I-Beam Joist under Tank, \$94.50.				Extra for I-Beam Joist under Tank, \$149.80.			
CLASS L-X For 50,000 Gallon Tanks.							
Height ft.	Weight lbs.	Price with I-Beam * Girders and Yellow Pine Joist Founda- tion under Tank.	Estimated Cost of Foundations in Ground.				
20	20260	1292 27	\$100 00				
30	22966	1514 47					
40	25227	1699 13					
50	29973	2086 72					
60	32353	2281 09					
70	34979	2495 55					
80	41193	3003 02					
90	44369	3262 40					
100	47011	3478 16					
Extra for I-Beam Joist under Tank, \$160.35.							

Prices are given for standard outfits. We build this type of tower in any other size or height wanted.

Prices include the Foundation at top of tower with extension, for Octagonal Walk-way with Iron Hand-rail.

The latticed column of tower is used for a ladder except for towers built for Tanks of 20,000 gallons and less for which a Ladder is furnished. On all Towers a Ladder is supplied from top section of Tower to balcony girder and on up to top of Tank.

The Towers are regularly furnished with two heavy Steel I-Beams for each main girder or cap with Yellow Pine Joist above and the necessary Chime Joist or Dunnage Timbers of Yellow Pine under tank bottom.

The additional cost is stated for furnishing Steel I-Beams instead of Yellow Pine Timbers for the joist.

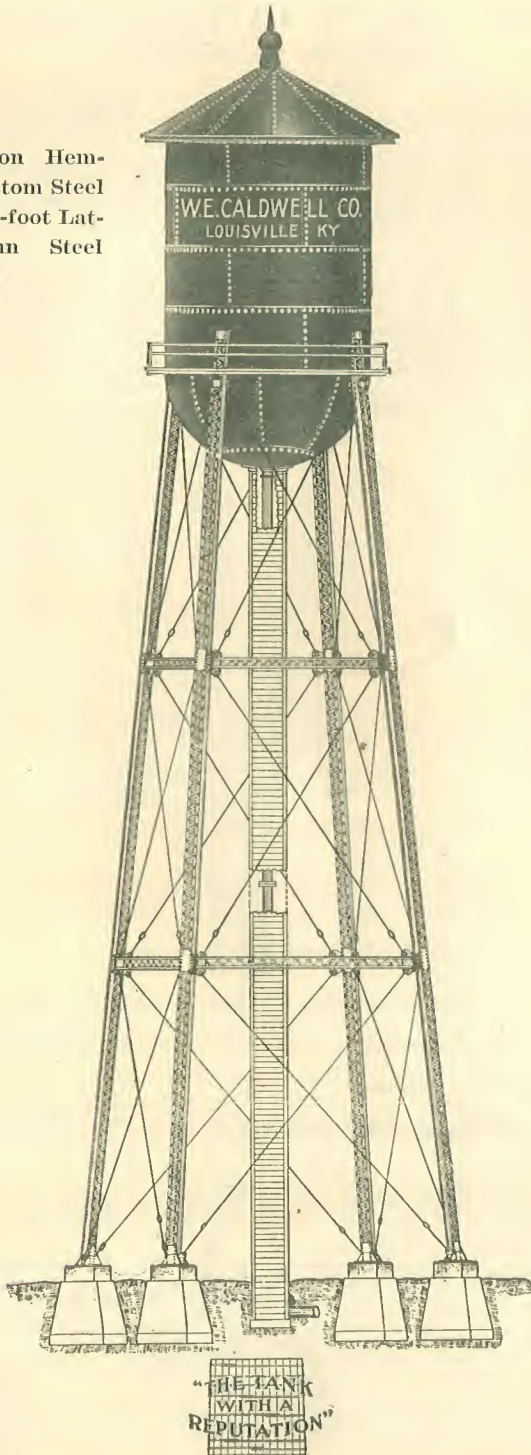
Prices do not include tank.

We supply plans and specifications for putting in the foundations and plans for the erection where customer puts job up.

We will quote for erecting any size outfit in any part of the country where desired.



50,000-Gallon Hem-  
ispherical Bottom Steel  
Tank and 100-foot Lat-  
ticed Column Steel  
Tower.







Episcopal High School,  
Alexandria, Va.  
50,000 Gallon Hemispherical Bottom  
Steel Tank,  
50 ft. Latticed Column Steel Tower.



Town Water Works, Plant City, Fla.  
60,000 Gallon Hemispherical Bottom  
Steel Tank,  
100 ft. Latticed Column Steel Tower.

"THE TANK  
WITH A  
REPUTATION"



City Water Works, Virginia, Minn.

100,000 Gallon Hemispherical Bottom Steel Tank.  
75 ft. Latticed Column Steel Tower.

"THE TANK  
WITH A  
REPUTATION"



## TOWN WATER WORKS.

The last few years has seen the stand-pipe, once used so extensively for water works systems for small towns and villages, almost entirely discarded in favor of the elevated tank. The greater safety and efficiency of the elevated tank make it much the more economical and satisfactory. In the stand-pipe there is a pressure that is rapidly lowered with the use of the water until with half the contents gone it quickly dwindles below a safe working limit. The small diameter and great height of the stand-pipe add very much to the weight and stability it is necessary to provide to insure its safety and often result in damage from ice that does not occur with the elevated tank on account of its much larger diameter.

We construct these outfits with either Wood or Steel Tanks and contract to put the job up complete.

Some of the towns that have installed a Caldwell Tank and Tower are given below.

### ALABAMA.

Columbiana,  
Marion,  
Uniontown.

### ARKANSAS.

Forrest City,  
Warren,  
Dermott,  
Hamburg,  
Lonoke.

### COLORADO.

Eaton.

### CONNECTICUT.

Thompson.

### DELAWARE.

Frederica.

### FLORIDA.

Bartow,  
Clearwater Harbor,  
Jasper,  
Plant City.

### GEORGIA.

Baxley,  
Eastman,  
Ellaville,  
Pretoria.

### ILLINOIS.

Breese,  
Ladd,  
LaHarpe,  
Lebanon,  
Loraine,  
Mendon,  
Morrisonville,  
Plymouth,  
Waynesville,  
Weldon.

### INDIANA.

Converse,  
Royal Center.

### IOWA.

Doon,  
Granville,  
Kingsley,  
Orange City,  
Remsen,  
Rock Valley,  
Sheldon,  
Vail,  
Waverly,  
Clearance.

### KANSAS.

Girard,  
Liberal.

### KENTUCKY.

Adairsville,  
Shawnee Park,  
Louisville,  
Middlesborough,  
Princeton,  
Danville.

### LOUISIANA.

Bastrop,  
Mer Rouge,  
Plaquemine,  
Oak Ridge.

### MAINE.

York Beach.

### MARYLAND.

Havre de Grace,  
Blue Ridge Summit,  
Princess Anne,  
Mt. Washington.

### MICHIGAN.

Ovid,  
Sand Beach,  
Shepherd,  
Roscommon,  
Township of Hematite.

### MISSISSIPPI.

Bolton,  
Indianola,  
Scranton,  
Shuqualak,  
Gunnison.

### MISSOURI.

Concordia,  
Excelsior Springs,  
Louisiana.

### MINNESOTA.

Virginia,  
Adrian,  
Bovey,  
Northome.

### NEW JERSEY.

Allenhurst,  
Lindenwood,  
North Spring Lake,  
Pitman Grove,  
Westwood,  
Cape May Court House,  
Pitman,  
Corson's Inlet,  
Laurence Harbor.

### NEW YORK.

Barren Island,  
Haines Falls.

### NEBRASKA.

Elmwood,  
Rushville.

### NEVADA.

Reno.

### NORTH CAROLINA.

Aberdeen,  
Concord.

### OHIO.

Continental,  
Kings Mills,  
Marice City,  
Oakwood.

### OKLAHOMA.

El Reno,  
Oregon.

### PENNSYLVANIA.

Delta,  
Ephrata,  
Hillsboro,  
Linwood,  
Osborn,  
Wyalusing,  
Beaver Falls,  
Rochester.

### RHODE ISLAND.

Shawomet Beach.

### SOUTH CAROLINA.

Pelzer.

### TENNESSEE.

Brownsville,  
Collierville,  
McKenzie,  
Manchester,  
Somerville.

### TEXAS.

Llano,  
Shiner,  
Corsicana,  
Beeville.

### VIRGINIA.

Cape Charles,  
Coeburn,  
Onancock,  
Waynesboro.

### WEST VIRGINIA.

Charleston,  
Lewisburg,  
Ronceverte.

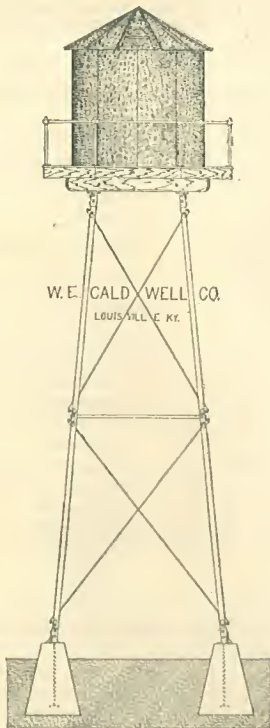
### WISCONSIN.

Monroe,  
Knight,  
Hillsboro.



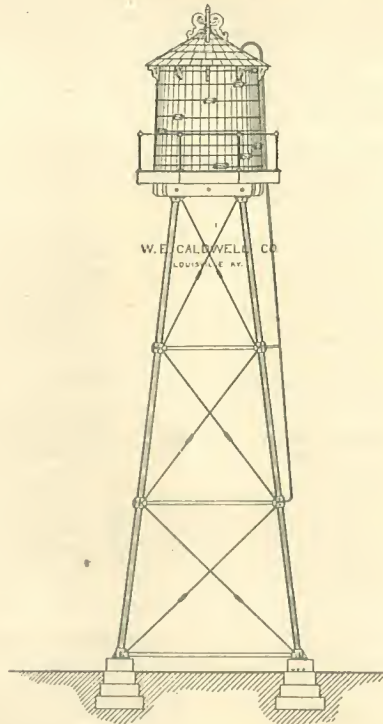
## SMALL WATER WORKS TOWERS AND TANKS.

**Galvanized Tank With Angle Column Steel Tower, Furnished Painted or Galvanized.**



**1,000 Gallon Galvanized Tank.  
20 ft. Galvanized Tower.**

**Cypress Tank With Our Patent Tubular Column Steel Tower, Furnished Painted.**



**2,500 Gallon Cypress Tank.  
39 ft. Tower.**

We also furnish plain heavy Steel Tanks with either of these towers. These are both popular size outfits for Country Home Water Works Systems.

The Angle Column Towers are furnished with tanks of 500 to 15,000 gallons.

The Tubular Column Towers are furnished with tanks of 1,000 to 100,000 gallons.

We supply either tower without Hand Railing or Ladder if so desired.

Detailed plans are supplied for putting in the foundations and for the erection.

Prices of Angle Column Towers are given on page 29.

See Page 21 for prices of Tubular Column Towers.

Prices of Towers do not include the Tank, Cover and other articles which are listed elsewhere.





## PRICE LIST OF ANGLE COLUMN TOWERS.

CLASS AA For 500 gallon Tank, 5 ft. diameter, 4 ft. high.				CLASS FF For 3,000 gallon Tank, 8 ft. 6 in. diameter, 8 ft. high.			
Height ft.	Shipping Weight lbs.	Price Painted.	Price Galvanized.	Height ft.	Shipping Weight lbs.	Price Painted.	Price Galvanized.
10	960	\$43 89	\$55 88	10	2172	\$88 86	\$111 77
20	1254	61 45	84 07	20	2703	123 41	159 95
30	1585	86 75	114 91	30	3242	158 39	208 39
40	1928	109 62	146 60	40	3798	194 29	258 28
				50	4428	233 15	313 88
				60	5081	273 56	367 62
Extra for I-Beam Caps, \$2.50. Extra for I-Beam Joist, \$8.60.				Extra for I-Beam Caps, \$7.25. Extra for I-Beam Joist, \$18.00.			
CLASS BB For 1,000 gallon Tank, 6 ft. diameter, 5 ft. high.				CLASS GG For 4,000 gallon Tank, 9 ft. diameter, 9 ft. high.			
10	1108	49 16	62 18	10	2551	113 10	137 83
20	1438	71 51	93 07	20	3188	148 37	192 90
30	1811	96 11	127 16	30	3850	191 38	253 03
40	2193	118 75	159 46	40	4530	237 39	316 68
50	2590	146 70	187 30	50	5285	282 87	381 64
				60	6069	332 19	451 24
Extra for I-Beam Caps, \$3.00. Extra for I-Beam Joist, \$15.60.				Extra for I-Beam Caps, \$10.00. Extra for I-Beam Joist, \$24.00.			
CLASS CC For 1,500 gallon Tank, 6 ft. 6 in. diameter, 6 ft. 6 in. high.				CLASS HH For 5,000 gallon Tank, 10 ft. diameter, 10 ft. high.			
10	1450	62 76	79 70	10	3316	130 03	160 60
20	1907	92 75	121 42	20	4031	174 85	227 70
30	2346	121 59	162 77	30	4769	230 84	290 61
40	2829	152 65	205 22	40	5535	270 08	358 59
50	3333	184 89	250 51	50	6377	322 56	432 60
				60	7245	376 49	508 83
Extra for I-Beam Caps, \$5.00. Extra for I-Beam Joist, \$15.00.				Extra for I-Beam Caps, \$10.00. Extra for I-Beam Joist, \$24.00.			
CLASS DD For 2,000 gallon Tank, 7 ft. 6 in. diameter, 7 ft. high.				CLASS JJ For 10,000 gallon Tank, 12 ft. diameter, 12 ft. high.			
10	1733	72 13	90 93	10	4551	168 35	203 51
20	2191	101 95	132 58	20	5616	240 31	301 96
30	2674	133 16	176 28	30	6808	319 50	410 85
40	3174	165 11	221 15	40	8084	401 17	523 53
50	3894	198 26	267 75	50	9547	495 72	655 36
				60	11053	590 78	787 01
				70	12699	693 96	931 00
				80	14358	797 32	1075 21
Extra for I-Beam Caps, \$6.00. Extra for I-Beam Joist, \$17.50.				Extra for I-Beam Caps, \$30.00. Extra for I-Beam Joist, \$47.00.			
CLASS EE For 2,500 gallon Tank, 8 ft. in diameter, 7 ft. high.				CLASS KK For 15,000 gallon Tank, 14 ft. diameter, 14 ft. high.			
10	2083	83 98	104 60	10	5838	212 17	257 93
20	2558	115 52	148 42	20	7053	291 90	367 69
30	3053	148 26	193 64	30	8348	367 31	474 93
40	3565	181 86	240 20	40	9805	469 02	612 73
50	4152	218 43	289 17	50	11446	571 76	756 02
60	4759	256 36	346 03	60	13102	674 75	899 64
				70	14900	768 50	1056 14
				80	16727	888 31	1212 47
Extra for I-Beam Caps, \$7.25. Extra for I-Beam Joist, \$18.00.				Extra for I-Beam Caps, \$37.50. Extra for I-Beam Joist, \$85.50.			

The prices include Tower with Yellow Pine Timber foundation extending out beyond tank with floor and Iron Pipe Hand-railing for Walk-way and also includes an iron ladder extending from ten feet above ground to three feet above tank with ends curved over.

The additional cost is given for furnishing Steel I-Beam Caps or Girders and also Steel I-Beam Joist where these are preferred to Yellow Pine Timbers.

The last three sizes of Towers can be furnished with a Windmill and Windmill Tower above Tank when wanted this way.



## WATER WORKS FOR COUNTRY HOMES.

We furnish many different types of tank outfits for Private Water Works Systems. The style most often used is like that illustrated on the opposite page with a windmill and windmill tower erected above the tank on the same structure, that carries the tank. In nearly all instances the tank is of 1,500, 3,000 or 5,000 gallons capacity, although in a large number of cases a 10,000 gallon tank is used and sometimes even larger. Probably more 3,000 gallon tanks are installed than any other.

The same outfit is furnished with an independent tower to support the windmill or with a gasoline engine, hydraulic ram, or hot air engine; or customer can supply this part of the equipment, as preferred.

The outfit illustrated on this page is furnished where tank of 1,500 gallons capacity or less is to be used with a windmill above the tank.

We contract to erect these jobs of the larger sizes or will furnish plans and instructions to enable customer to do this, as preferred and as we always do for the smaller outfits.

We also furnish and install these systems complete, with pump, pipe and hydrants all connected up ready for operation.

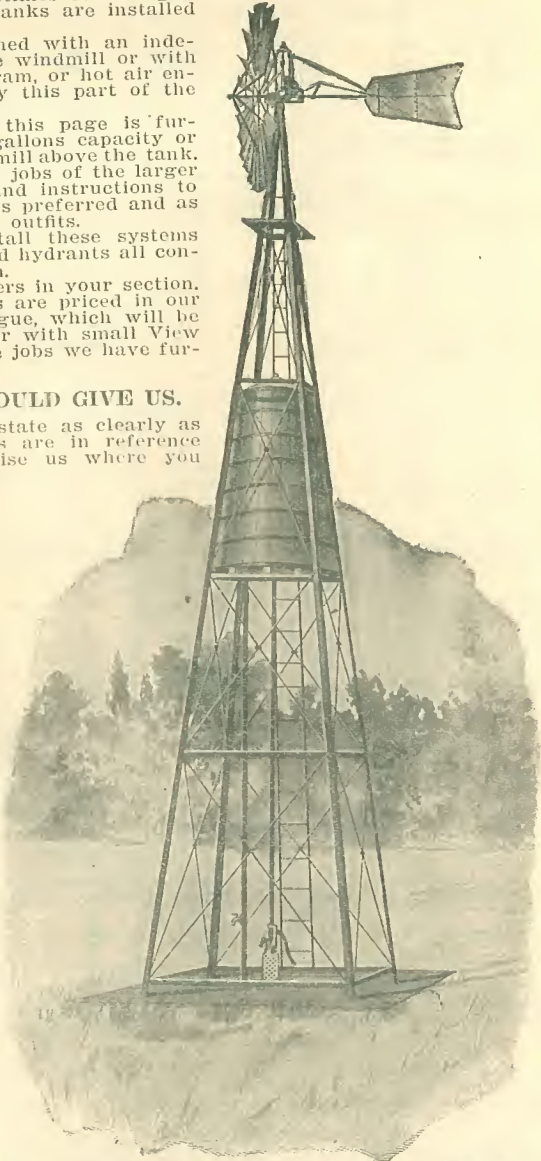
Send for names of customers in your section.

Outfits of these two types are priced in our Special Water Works Catalogue, which will be sent free on request, together with small View Book illustrating some of the jobs we have furnished.

### INFORMATION YOU SHOULD GIVE US.

When asking for prices, state as clearly as possible what the conditions are in reference to your requirements. Advise us where you will get your water, whether from a well, spring, lake or pond, or a stream. If a well, advise whether an open or bored well, the diameter, the depth and the flow, also distance to the water from the ground line. Advise us how far the water supply is located from the house and whether tank and windmill can set directly over same or if you want tank at a different location, and where. Also state what difference there is in the level of the ground between the different points, and what the height is of adjacent buildings and trees. The windmill must be at least 10 or 15 feet higher than adjacent objects. If you are uncertain as to the size of tank and height it should be elevated, let us know if you want the outfit just to supply water for the house or if also for the stock and for sprinkling the lawns, etc., and whether it is desired to use same for fire protection.

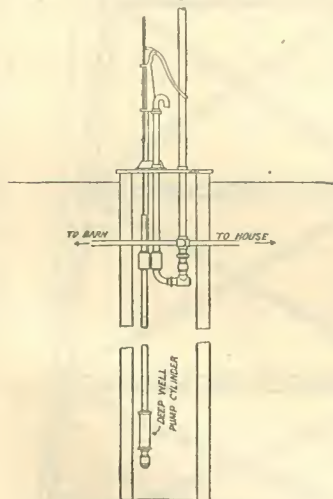
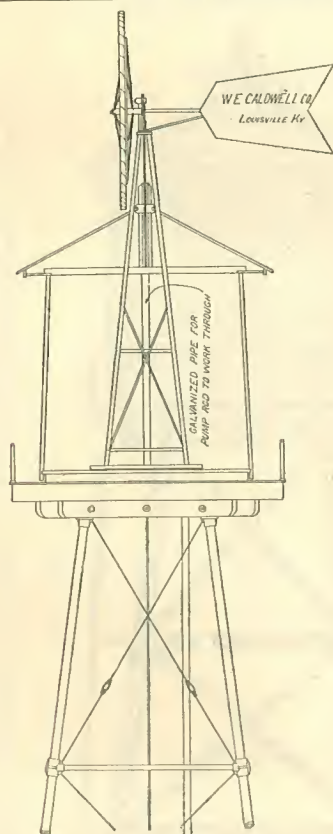
Always say if outfit is to be used in summer only or all the year round.



Combined Windmill and Tank Tower. Prices on Application.







Prices on Application.



5,000 Gallon Cypress Tank.  
39 ft. Tubular Column Tower.  
10 ft. Galvanized Windmill and 20 ft.  
Galvanized Windmill Tower.  
In Use by Mr. Geo. R. Metcalfe,  
Eric, Pa.

"THE TANK  
WITH A  
REPUTATION"

## ALL WOOD FRAMED TOWERS.

On the next page we give prices of All-Wood Towers illustrated by this cut.

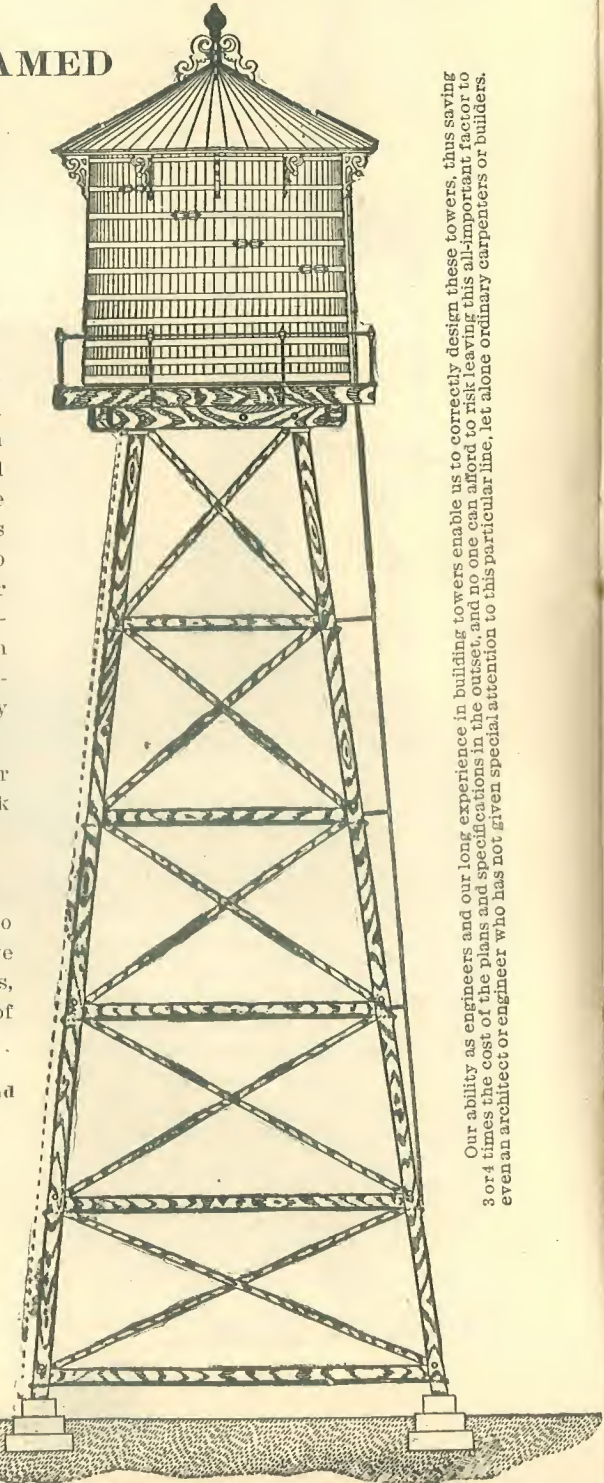
This Tower is a well-framed structure, with mortises and tenons, all built of dressed heart timber and with joints well made, all mortises and brace seats being so formed that no water can lodge in them. It is thoroughly tied together with heavy angle rods and cast-iron washers and heavy cast plates at top of columns, which provide for nearly a double bearing surface for the girders to rest on that carry the tank, the importance of which is readily apparent.

We will furnish this Tower complete, or the iron work only, as parties may desire.

See Prices on Next Page.

When parties desire to build their own towers we will furnish complete Plans, Specifications, and Bills of Material at a nominal price.

See "Prices of Plans and Specifications" of this Style of Tower on Next Page.



Our ability as engineers and our long experience in building towers enable us to correctly design these towers, thus saving 3 or 4 times the cost of the plans and specifications in the outset, and no one can afford to risk leaving this all-important factor to even an architect or engineer who has not given special attention to this particular line, let alone ordinary carpenters or builders.



## ALL-WOODEN TOWERS.

[See Cut on Preceding Page.]

## CLASS O.

Height In Feet.	Capacities of Tanks Towers will Support.	Shipping Weight Iron Work. Lbs.	Cost Iron Work.	Shipping Weight Tower Complete. Lbs.	Cost of Tower Complete.	Prices of Plans, Specifications and Bills of Material Alone.	Estimated Cost of Foundations.
15		389	\$30 08	2,306	\$67 72	\$3 75	\$15 00
27	1,500	490	39 16	3,639	138 80	5 75	15 00
39	gallons	612	49 88	5,223	137 30	7 75	15 00
51	and	734	60 18	6,941	178 07	10 00	15 00
63	less.	884	73 52	9,303	234 17	12 50	15 00
75		1,033	86 78	11,344	283 20	16 00	15 00

## CLASS A.

15		412	32 56	3,244	85 57	5 00	20 00
27	2,000	532	42 10	4,494	116 92	7 50	20 00
39	to	646	54 66	6,070	157 22	10 00	20 00
51	3,000	772	63 98	7,720	195 42	12 50	20 00
63	gallons.	920	77 38	9,889	247 65	15 00	20 00
75		1,052	91 08	12,206	302 67	20 00	20 00

## CLASS B.

15		435	35 33	4,147	104 40	6 75	25 00
27	4,000	560	45 01	5,455	137 08	8 75	25 00
39	to	693	56 18	7,196	179 08	11 00	25 00
51	6,000	823	67 48	8,802	218 68	13 50	25 00
63	gallons.	983	83 28	11,049	274 50	16 50	25 00
75		1,142	95 68	13,513	331 05	20 00	25 00

## CLASS C.

15		572	44 91	5,945	145 38	7 50	32 50
27	7,000	723	57 86	7,848	191 90	10 00	32 50
39	to	908	73 31	10,211	249 10	12 50	32 50
51	10,000	1,094	90 09	12,749	302 70	15 00	32 50
63	gallons.	1,331	110 89	15,611	382 08	22 50	32 50
75		1,561	130 41	18,487	452 20	25 00	32 50

## CLASS D.

15		683	53 56	7,650	179 15	10 00	40 00
27	12,000	847	67 58	10,310	241 00	12 50	40 00
39	to	1,061	86 48	13,491	316 78	15 00	40 00
51	15,000	1,264	104 40	17,222	378 33	18 00	40 00
63	gallons.	1,530	127 38	21,279	498 15	23 00	40 00
75		1,811	151 78	25,458	597 08	30 00	40 00

## CLASS E.

15		796	62 28	9,568	227 18	12 50	50 00
27	15,000	966	76 86	12,162	288 20	15 00	50 00
39	to	1,197	98 43	15,912	377 23	17 50	50 00
51	20,000	1,403	116 28	19,358	457 18	22 50	50 00
63	gallons.	1,768	140 18	23,620	555 78	28 00	50 00
75		1,925	165 26	27,965	655 38	35 50	50 00

## CLASS F.

15		988	76 96	13,053	306 63	17 00	60 00
27	20,000	1,213	95 70	17,085	398 35	20 00	60 00
39	to	1,532	124 70	21,757	510 78	23 00	60 00
51	25,000	1,806	148 15	26,576	621 35	27 50	60 00
63	gallons.	2,160	180 13	32,057	751 53	35 00	60 00
75		2,484	206 48	37,590	877 75	42 50	60 00

The heights above given are standard, and are from the ground or grade-line to the bottom of the Tank. Note the shipping weights given. We guarantee them to be correct.

The prices of Towers include the Foundation at top of Tower for Tank, with extension for Octagonal Walk-way with Iron Hand-rail and with Iron Ladder, as shown in cut on opposite page.

Write for delivered prices.

We also build these Towers in heights of 87 and 100 feet when desired.

SEE CUT ON PRECEDING PAGE.

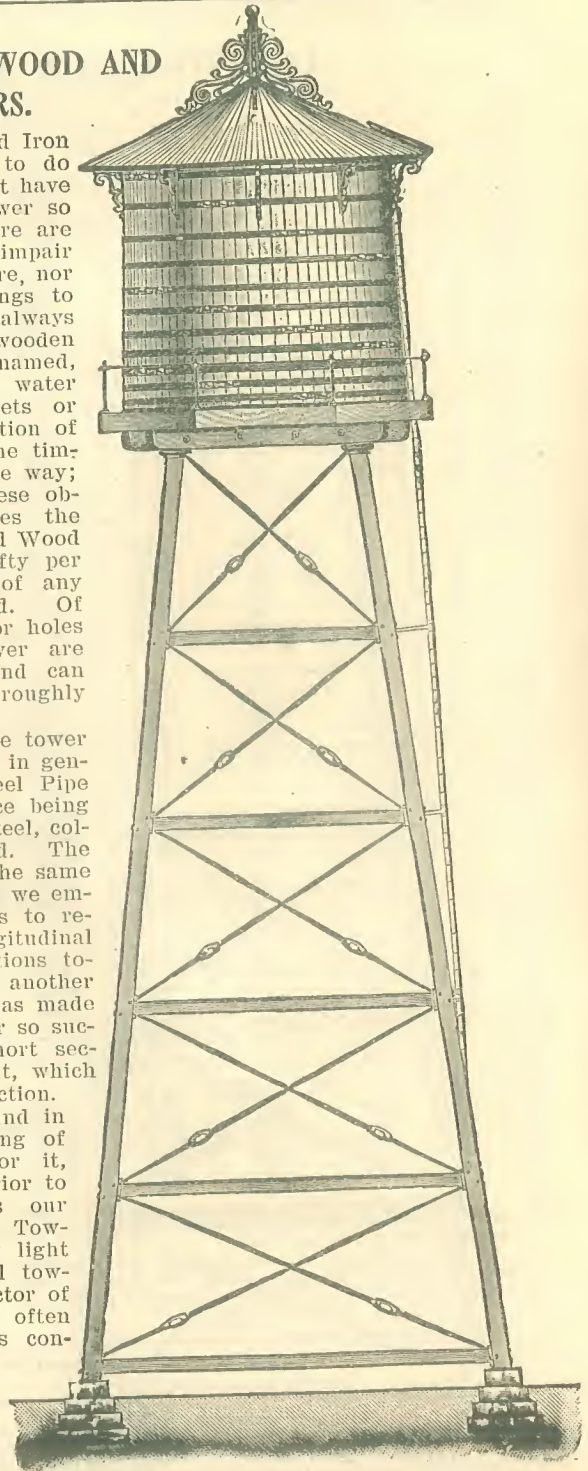


## SPECIAL COMBINED WOOD AND IRON TOWERS.

This Combined Wood and Iron Tower is designed so as to do away with the features that have always made a wooden tower so objectionable; that is, there are no mortises and tenons to impair the strength of the structure, nor any brace seats or openings to collect water. These have always been the weak points in a wooden tower, especially the last named, as, of course, where the water could lodge in the sockets or brace seats it was a question of only a short time until the timber would rot out and give way; and an elimination of these objectionable features makes the durability of our Combined Wood and Iron Towers fully fifty per cent. greater than that of any wood tower yet designed. Of course, with no notches or holes the surfaces of the tower are smooth and unbroken, and can therefore be kept thoroughly painted throughout.

It will be seen that the tower is built on the same lines in general as our Sectional Steel Pipe Tower, the only difference being that wooden, instead of steel, columns and struts are used. The sway-bracing is of iron, the same as in our steel tower, and we employ cast-iron connections to receive the struts or longitudinal ties which bind the sections together. We also retain another distinctive feature that has made our Sectional Steel Tower so successful, which is the short sections in which it is built, which minimizes the cost of erection.

The tower will be found in every way fully deserving of the claim we make for it, that it is as much superior to any wooden tower as our Standard Patented Steel Towers are to the ordinary light iron or galvanized steel towers, with scarcely no factor of safety, that are so often palmed off as first-class constructions.





## COMBINED WOOD AND IRON TOWERS.

## CLASS O.

Height in Feet.	Capacities of Tanks Towers will support.	Shipping Weight Iron Work. Lbs.	Cost Iron Work.	Shipping Weight Tower Complete. Lbs.	Cost of Tower Complete.	Prices of Plans, Specifications and Bills of Material Alone.	Estimated Cost of Foundations.
15		624	\$50 01	2,256	\$80 03	\$3 75	\$15 00
27	1,500	945	79 08	3,443	125 50	5 75	15 00
39	gallons	1,286	108 63	4,630	171 28	7 75	15 00
51	and	1,616	139 53	5,926	220 10	10 00	15 00
63	less.	2,026	171 90	7,530	275 95	12 50	15 00
75		2,418	205 18	9,290	335 45	16 00	15 00

## CLASS A.

15		637	51 56	3,041	96 52	5 00	20 00
27	2,000	960	80 53	4,230	141 05	7 50	20 00
39	to	1,300	110 18	5,416	182 82	10 00	20 00
51	3,000	1,660	141 33	6,712	236 00	12 50	20 00
63	gallons.	2,042	173 55	8,318	292 60	15 00	20 00
75		2,434	206 78	10,078	352 05	20 00	20 00

## CLASS B.

15		669	54 41	3,911	115 43	6 75	25 00
27	4,000	999	83 51	5,138	161 10	8 75	25 00
39	to	1,351	113 65	6,378	208 25	11 00	25 00
51	6,000	1,709	144 83	7,672	257 36	13 50	25 00
63	gallons.	2,100	178 03	9,335	314 95	16 50	25 00
75		2,501	211 91	11,128	375 50	20 00	25 00

## CLASS C.

15		845	68 79	5,795	161 13	7 50	32 50
27	7,000	1,288	107 01	7,516	223 88	10 00	32 50
39	to	1,750	146 06	9,259	287 45	12 50	32 50
51	10,000	2,230	187 04	11,401	360 30	15 00	32 50
63	gallons.	2,755	230 89	13,615	436 53	22 50	32 50
75		3,410	277 01	16,172	519 10	25 00	32 50

## CLASS D.

15		986	80 38	7,449	196 28	10 00	40 00
27	12,000	1,469	122 48	10,088	278 73	12 50	40 00
39	to	1,979	166 25	12,666	363 15	15 00	40 00
51	15,000	2,502	210 90	15,397	448 38	18 00	40 00
63	gallons.	3,008	258 60	18,210	540 88	23 00	40 00
75		3,608	309 03	21,450	641 90	30 00	40 00

## CLASS E.

15		1,173	94 65	9,297	247 33	12 50	50 00
27	15,000	1,748	144 08	12,119	330 63	15 00	50 00
39	to	2,347	194 83	14,300	429 65	17 50	50 00
51	20,000	2,994	248 90	17,676	527 08	22 50	50 00
63	gallons.	3,684	306 13	20,919	633 23	28 00	50 00
75		4,392	364 53	24,147	739 93	35 50	50 00

## CLASS F.

15		1,417	114 23	12,320	321 65	17 00	60 00
27	25,000	2,091	171 80	15,947	435 80	20 00	60 00
39	to	2,731	232 00	19,639	553 05	23 00	60 00
51	30,000	3,570	295 90	23,570	677 68	27 50	60 00
63	gallons.	4,345	360 30	27,609	804 63	35 00	60 00
75		5,184	429 55	32,384	949 33	42 50	60 00

The heights above given are standard, and are from the ground or grade-line to the bottom of the Tank. Note the shipping weights given. We guarantee them to be correct.

The prices of Towers include the Foundation at top of Tower for Tank, with extension for Octagonal Walk-way with Iron Hand-rail and with Iron Ladder, as shown in cut.

Write for delivered prices.

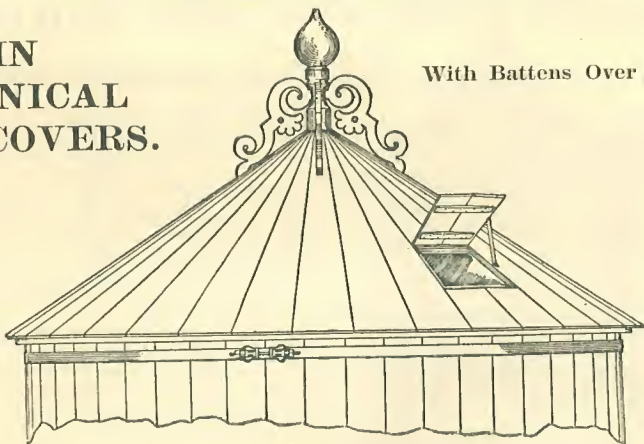
We also build these Towers in heights of 87 and 100 feet when desired.

SEE CUT ON OPPOSITE PAGE.



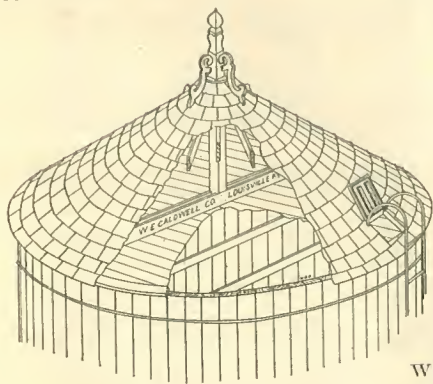
# PLAIN CONICAL COVERS.

With Battens Over Joints.



## PRICE LIST.

Cover for Tank.	6 ft. 6 in. diameter.	Battened.		Shingled.	
		Weight.	Price.	Weight.	Price.
6 ft. 6 in. diameter.		200 lbs.	\$ 9 19	380 lbs.	\$ 14 44
8 " 0 " "		300 "	14 53	540 "	21 53
10 " 0 " "		450 "	19 67	750 "	28 42
12 " 6 " "		775 "	27 00	1175 "	38 80
14 " 0 " "		1050 "	33 58	1500 "	46 71
16 " 0 " "		1150 "	42 23	1810 "	61 48
18 " 0 " "		1500 "	50 73	2300 "	73 92
19 " 6 " "		1800 "	61 34	2625 "	85 40
22 " 0 " "		2000 "	75 69	3200 "	110 69
24 " 0 " "		2300 "	94 97	4040 "	145 72
26 " 0 " "		2800 "	115 50	5050 "	181 14
28 " 0 " "		3500 "	141 17	6350 "	224 30
30 " 0 " "		4500 "	179 67	8100 "	284 67



## FROST-PROOF PLAIN CONICAL COVER.

With Shingles and Inside Flat  
Cover and Joist.

## PRICE LIST.

Cover for Tank.	6 ft. 6 in. diameter.	Without Shingles.		With Shingles.	
		Weight.	Price.	Weight.	Price.
6 ft. 6 in. diameter.		318 lbs.	\$ 12 88	498 lbs.	\$ 18 13
8 " 0 " "		455 "	19 34	695 "	26 34
10 " 0 " "		699 "	29 26	999 "	38 01
12 " 6 " "		1214 "	40 65	1614 "	52 45
14 " 0 " "		1590 "	50 87	2040 "	61 00
16 " 0 " "		1843 "	63 79	2503 "	83 04
18 " 0 " "		2355 "	77 33	3155 "	100 52
19 " 6 " "		2822 "	93 12	3647 "	117 18
22 " 0 " "		3470 "	116 85	4670 "	151 85
24 " 0 " "		4030 "	143 41	5770 "	194 16
26 " 0 " "		4673 "	167 93	6923 "	233 57
28 " 0 " "		5685 "	202 35	8535 "	285 48
30 " 0 " "		7175 "	254 51	10775 "	359 57



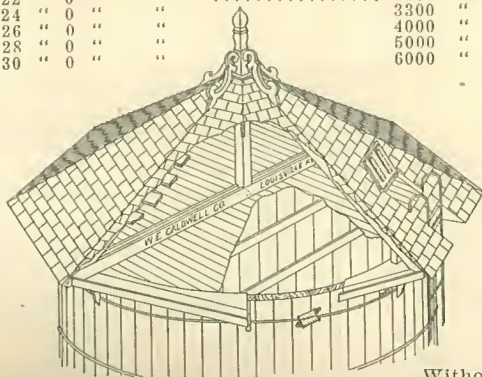




## FANCY CONICAL COVERS.

With Battens Over Joints.

		PRICE LIST.		Battened.		Shingled.	
Cover for Tank.				Weight.	Price.	Weight.	Price.
6 ft. 6 in. diameter	.....			390 lbs.	\$ 15 87	630 lbs.	\$ 22 87
8 " 0 " "	.....			500 "	21 54	800 "	30 29
10 " 0 " "	.....			700 "	29 34	1075 "	40 79
12 " 0 " "	.....			1050 "	40 13	1575 "	55 44
14 " 0 " "	.....			1400 "	48 35	2000 "	65 85
16 " 0 " "	.....			1600 "	60 99	2425 "	85 05
18 " 0 " "	.....			2000 "	73 41	3000 "	101 85
19 " 6 " "	.....			2400 "	88 57	3525 "	121 38
22 " 0 " "	.....			2800 "	105 56	4300 "	149 31
24 " 0 " "	.....			3300 "	128 33	5400 "	189 68
26 " 0 " "	.....			4000 "	154 00	6700 "	232 75
28 " 0 " "	.....			5000 "	192 50	8600 "	297 50
30 " 0 " "	.....			6000 "	243 83	11000 "	388 22



## FROST-PROOF FANCY CONICAL COVERS.

With Shingles and Inside  
Flat Cover and Joist.

		PRICE LIST.		Without Shingles.		With Shingles.	
Cover for Tank.				Weight.	Price.	Weight.	Price.
6 ft. 6 in. diameter	.....			508 lbs.	\$ 19 55	748 lbs.	\$ 26 55
8 " 0 " "	.....			655 "	26 34	955 "	35 09
10 " 0 " "	.....			949 "	39 43	1324 "	50 38
12 " 0 " "	.....			1489 "	53 78	2014 "	69 09
14 " 0 " "	.....			1940 "	65 64	2540 "	83 14
16 " 0 " "	.....			2293 "	82 55	3118 "	106 61
18 " 0 " "	.....			2855 "	100 01	3855 "	128 45
19 " 6 " "	.....			3422 "	120 35	4547 "	153 16
22 " 0 " "	.....			4270 "	146 75	5770 "	190 47
24 " 0 " "	.....			5030 "	176 77	7130 "	238 02
26 " 0 " "	.....			5873 "	206 43	8573 "	285 18
28 " 0 " "	.....			7185 "	253 68	10785 "	358 68
30 " 0 " "	.....			8675 "	318 73	13675 "	463 12

"THE TANK  
WITH A  
REPUTATION"

## HEAVY STEEL TANKS AND COVERS.

For Storage of Water, Oil, Turpentine, Etc.



We also build these Tanks in Rectangular, Elliptical, and other shapes.

GALLONS.	DIAMETER.	HEIGHT.	PRICE. TANK.	PRICE. COVER.
500	5 feet	4 feet	\$ 38 16	\$ 21 50
1,000	6 "	5 "	55 20	25 60
1,500	6 "	6 "	71 40	25 60
2,000	8 "	5 "	78 00	30 00
2,500	8 "	7 "	96 90	30 00
2,800	8 "	8 "	105 90	30 00
3,500	9 "	7 "	117 60	36 00
4,000	9 "	9 "	133 80	36 00
4,500	10 "	8 "	142 20	40 00
5,000	10 "	9 "	154 20	40 00
5,500	10 "	10 "	166 20	40 00
6,500	10 "	12 "	189 60	40 00
7,500	12 "	9 "	222 00	62 00
10,000	12 "	12 "	264 00	62 00
15,000	14 "	14 "	359 40	81 00
20,000	16 "	14 "	463 20	116 50
25,000	18 "	14 "	691 20	143 00
30,000	18 "	16 "	755 40	143 00
40,000	20 "	20 "	1,027 80	222 00
50,000	22 "	18 "	1,082 40	263 50
60,000	24 "	18 "	1,225 20	384 00
68,000	24 "	20 "	1,309 80	384 00
80,000	24 "	24 "	1,576 20	384 00
100,000	26 "	26 "	1,842 00	456 00

The smaller sizes of tanks are built of  $\frac{1}{4}$ -inch steel; the intermediate sizes of  $\frac{3}{16}$ -inch and  $\frac{1}{2}$ -inch, and the larger sizes of  $\frac{1}{4}$ -inch and  $\frac{3}{16}$ -inch.

We supply these Steel Tanks thoroughly knocked down, well finished and punched for rivets, with rivets to put them together. All pieces are plainly marked, and we furnish blue print showing how tanks go together.

WRITE FOR DISCOUNTS, or let us quote Net Prices, including freight to your city.

We can figure on erecting these tanks, where desired.

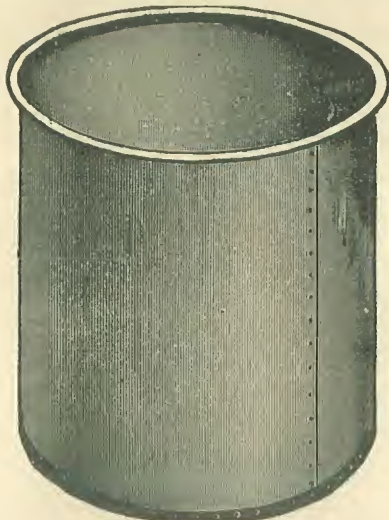
**We Build These Tanks in Any Other Size and Thickness Wanted.**





**GALVANIZED STEEL TANKS.**

Send for Special Galvanized Tank Catalogue Listing All Sizes and Styles.

**RELIABLE  
Galvanized Round Storage Tanks.**

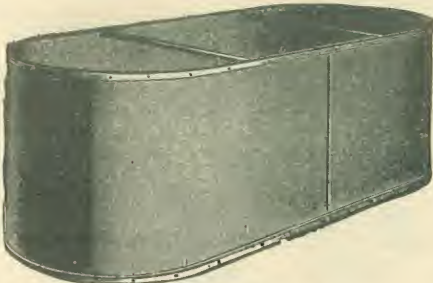
No.	Diameter feet.	Height feet.	Capacity bbls.	Price.
1	2	2	1½	\$ 6 65
2	2½	2½	2½	7 55
3	3	2	3	8 00
4	3	3	5	10 00
5	3	4	7	11 00
6	4	3	9	12 75
7	4	4	12	16 00
8	4	5	15	19 00
9	5	4	19	21 00
10	5	5	24	23 75
11	6	4	27	25 00
12	6	5	31	30 00
13	6	6	40	35 00
14	6	8	47	43 00
15	8	5	60	47 50
16	8	6	70	52 50
17	8	8	90	65 00
18	10	8	150	85 00
19	10	10	180	95 00
20	12	10	270	128 00
21	12	12	325	150 00
22	14	12	430	225 00
23	14	14	500	250 00
24	16	14	650	290 00
25	16	16	740	325 00

We figure 31½ gallons to the barrel. These capacities are, however, not meant to be absolutely exact, but reasonably close. Measurements all outside.

We can furnish these tanks in any size wanted.

Prices do not include covers. When required they will be supplied at proportionate additional prices.

List prices of all tanks are based on No. 20 Gauge. For tanks No. 13 to 17 inclusive we recommend No. 18 Gauge; for tanks No. 18 and 19, No. 16 Gauge; for tanks No. 20 and 21, No. 14 Gauge. Larger tanks, No. 12 and No. 10 Gauge. No. 18 Gauge increases the price 20 per cent; No. 16, 40 per cent; No. 14, 60 per cent; No. 12, 100 per cent; No. 10, 150 per cent.

**RELIABLE GALVANIZED STEEL RECTANGULAR TANKS.****Round End. PRICE LIST.**

No.	Width feet.	Height feet.	Length feet.	Capacity bbls.	Price.
23	2	2	4	3¼	\$7 00
24	2	2	6	5¼	10 25
25	2	2	8	7	12 25
26	2½	2	8	9	13 00
27	3	2	8	11	14 00
28	4	2	8	14	18 00
29	3	2	10	13½	17 50
30	4	2	10	17½	21 50
31	4	2	16	28	34 00

**Square End. PRICE LIST.**

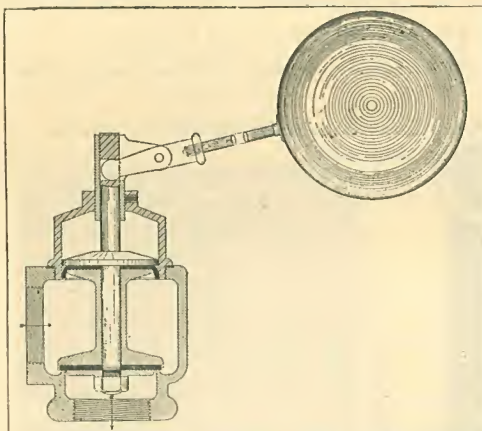
No.	Width feet.	Height feet.	Length feet.	Capacity bbls.	Price.
33	2	2	4	4	\$8 50
34	2	2	6	6	11 00
35	2	2	8	7½	16 00
36	2½	2	8	9½	17 50
37	3	2	8	12	18 75
38	4	2	8	15	23 00
39	3	2	10	14	22 00
40	4	2	10	19	25 75
41	4	2	16	30	38 00

We can furnish these tanks in any size wanted.

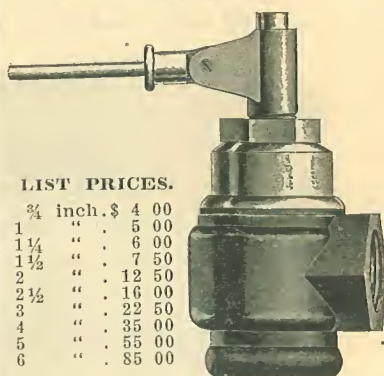
We Also Build Steel Tanks of All Sizes and Kinds.

"THE TANK  
WITH A  
REPUTATION"

# THE CALDWELL IMPROVED BALANCED FLOAT VALVE.



Send for Circular Giving Full Description.



## LIST PRICES.

$\frac{3}{4}$ inch.	\$ 4 00
1	5 00
1 $\frac{1}{4}$	6 00
1 $\frac{1}{2}$	7 50
2	12 50
2 $\frac{1}{2}$	16 00
3	22 50
4	35 00
5	55 00
6	85 00

## DIRECTIONS.

Connect the valve so that the stem will be vertical with lever on top. Always let pressure enter side of valve.

The valve does not require to be in the tank to be filled, but can be used outside in any position suitable. The valve can be used in any kind of liquid that will not destroy the leather. For enclosed vessels, such as feed-water heaters, we can furnish plans and parts to connect valve, at but little additional cost, so that it will be on the outside of vessel and be automatically operated by float in the vessel.

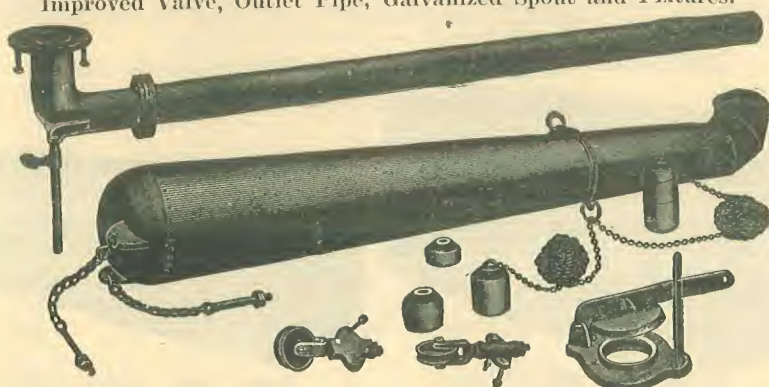
The valve cannot be used where there is very much back pressure. When used in fluids that destroy leather, we supply special metallic packing instead.

## PLACES TO USE THE VALVE.

On any tank or reservoir where the inflow must keep pace with outflow or usage. Also as a relief valve on discharge pipes of pressure pumps.

## RAILROAD TANK FIXTURES.

Improved Valve, Outlet Pipe, Galvanized Spout and Fixtures.



The above cut represents our Improved Tank Fixtures and Tank Outlet Valve, which are strictly frost-proof. We furnish these in four sizes—4, 6, 7 and 8 inch.

	4 in.	6 in.	7 in.	8 in.	10 in.
Fixtures for 10 to 14 ft. diameter Tank.	\$45 00	\$60 00	\$70 00	\$90 00	\$125 00
" " 16	55 00	65 00	75 00	95 00	135 00
" " 20	"	70 00	80 00	100 00	145 00
" " 24	"	75 00	85 00	110 00	160 00
" " 30	"	82 50	92 50		

Tank Outlet Valves (as per cut); also Tank Float Valves.

For 1 inch pipe.	\$2 25	For 2 $\frac{1}{2}$ inch pipe.	\$ 5 00	For 6 inch pipe.	\$12 00
" 1 $\frac{1}{4}$ "	2 50	" 3 "	6 00	" 7 "	15 00
" 1 $\frac{1}{2}$ "	3 00	" 4 "	8 00	" 8 "	18 00
" 2 "	4 00	" 5 "	10 00	" 10 "	24 00

These valves are not threaded unless ordered that way.

Why is Cypress the best wood for Tanks?

Because it has not the knots and defects found in White Pine and other woods.

Write for discounts and freight rates or state outside bottom diameter and outside height of tank, distance from center of track to center of tank, and we will quote net delivered prices.



# TANK GAUGES.

**MERCURY TANK INDICATOR:** It is connected to the tank by a small pipe or can be connected to any existing pipe leading directly to the tank where the velocity of the water is not great enough to decrease the pressure.

It is constructed without valve, spring or mechanism of any description, and is operated by the hydrostatic pressure of the water against the mercury which raises in the glass tube until it balances the pressure produced by the water.

As the length of the indicator varies with the height of the tank, orders should specify the vertical height from floor of room where indicator is to be placed to the bottom of the tank, and also the depth of the tank.

The indicators are made in two styles—iron body with brass scale, and polished brass body and scale which can also be nickeled.

## Prices.

	IRON	BRASS	NICKELED
For heights up to 50 feet.	\$12.00	\$24.00	\$26.00
" " " betw. 50 & 100 ft.	14.50	28.50	31.00
" " " 100 & 150 "	17.50	35.00	38.00
" " " 150 & 200 "	21.00	42.00	46.00
" " " above 200 feet	special prices quoted.		

## INDICATOR, GAUGE AND FLOAT.

This Gauge is laid off in feet and decimals of a foot, having a white background with three-inch figures painted thereon in black and is furnished with a brass chain for attaching the sliding gauge and a copper ball float with pulleys over which the chain runs.

This is neat and substantial and inexpensive.

## Price List.

For Tanks	6 ft. and less in height.	\$4.50
" "	7 ft. to 8 ft. in height (inclu.)	6.00
" "	9 " 10 "	7.50
" "	11 " 14 "	10.20
" "	15 " 18 "	13.20
" "	19 " 20 "	15.60
" "	21 " 24 "	18.00
" "	25 " 26 "	21.60

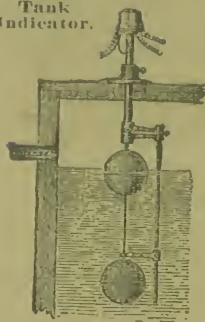


Mercury  
Tank  
Indicator.



Indicator, Gauge  
and Float.

## CALDWELL TELL-TALE FLOATS.



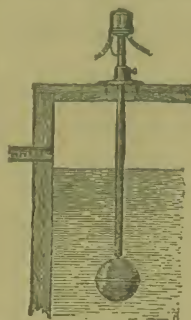
No. 1.

High and Low  
Water Floats  
for Closed  
Tanks.



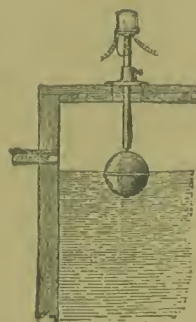
No. 2.

High and Low  
Water Floats  
for Open  
Tanks.



No. 3.

Low Water  
Floats.



No. 4.

High Water  
Floats.

## Price List.

No. 1.	For High and Low, closed tank.	\$12.00
No. 2.	For High and Low, open tank.	12.00
No. 3.	For Low Water, open or closed tank.	7.00
No. 4.	For High Water, open or closed tank.	7.00
Extra lengths on single or double floats.		Per foot, .40

Write for discounts; also special, illustrated, descriptive circular.

State distance you want floats below top end of stove.





W.E. CALDWELL CO. LOUISVILLE, KY.

100000 Gallon Hemispherical Bottom Steel Tank  
125 Foot Latticed Column Steel Tower